Test Data

ADA 0 24562

Titan IIIC
Transtage/Stage ii
Separation Shock
Bench Test

Distribution Statement A

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A series of pyrotechnic shock tests were conducted to evaluate several concepts of attenuating the shock generated by the pyrotechnically actuated nuduring Transtage separation on the Titan IIIC launch vehicle. An orifice installed between the pyrotechnic device and the separation mechanism pistoreduced shock levels by approximately 40%.	
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Volume III

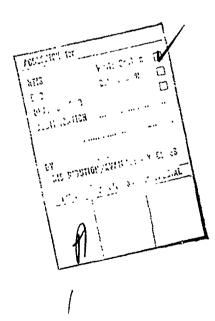
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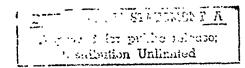
November 1975

**TEST DATA** 

TITAN IIIC TRANSTAGE/STAGE II SEPARATION-SHOCK BENCH TEST



MARTIN MARIETTA CORPORATION P.O. Box 179 Denver, Colorado 80201



## **FOREWORD**

This report is submitted by the Martin Marietta Corporation, Denver Division, in accordance with Contract F04701-75-C-0166, CDRL Sequence Number A049. The document consists of three volumes:

Volume I - Test Report

Volume II - Analyses

Volume III - Test Data

volume III - lest Da

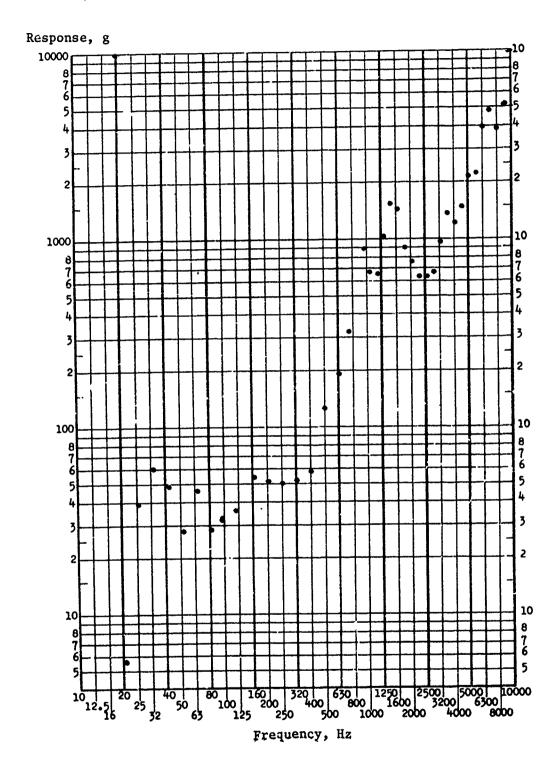
This volume contains the shock response spectra from each of the 15 accelerometers for all 51 test runs. The runs are summarized on the next page.

## Bench Shock Test Summary

Run	Contiguration	Results
1	Dual separation nuts, fixed longeron at Sta 77	Levels similar to system test
2	Dual separation nuts, free longeron at Sta 77	Levels exceeded system levels
3	Dual separation nuts, fixed longeron on this and all subsequent tests	Baseline
4	Dual separation nuts	Baseline, measurements on Accelerometers 10, 11, and 12 appeared abnormally low
5	Dual separation nuts	Baseline
6	Only Stage II nut fired	No reduction from baseline
7	Only Stage ill nut fired	No reduction from baseline
8	Only Stage III nut tired	Tensurements on Accelerometers 10, 11, and 12 appeared abnormally low
9	Stage III nut fired, 75 ft-1b torque	No reduction from baseline
10	Stage III nut fired, 300 ft-1b torque	No reduction from baseline
11	Stage III nut only, 0.063-in, orificed nut	₹ 6-dB reduction from baseline
12	Stage 111 nut only, 0.063-in, orificed nut	≥ 3-dB reduction from baseline
13	Stage 111 nut only, 0.063-in. orificed nut	≥ 3-dB reduction from baseline
14	Stage III nut only, castellated washer	No reduction trop baseline
15	Dual nuts fired, 0.063-in. orificed nuts	≥ 3-dB reduction from baseline
16	Stage III nut only, reduced initiator charge	≥ 6-dB reduction from baseline
17	Scage III nut only, reduced initiator charge	₹ 5-dB Feduction from baseline
18	Stage III nut only, padded stud	No reduction grow baseline
19	Stage III nut only, reduced initiator charge	₹ 6-dB reduction from baseline
20	htage III not only, crushable wanner	No reduction from baseline
21	stage 1'1 nut only, isolation at ser lib	slight reduction for baseline
22	Stage III nut only, isolation at sta 133	to reduction from biseline
23	Stage III nut only, 0.061-in, orificed nut	Similar to reduction with 0.063-in, orificed nut
24	Ntage III nut onl., 0.081-in, orificed nut	similar to reduction with 0.061-in. orificed nut
25	Stage in nut only 0.063-in. orificed nut with	strilar to reduction with 0.063-in. orificed nut
26	Stage 111 nut only, 0.065-in, orificed nut with modified piston	Similar to reduction with 0.063-in. orificed nut
27	Stage III nut only, 0.032-in, origined nut	rester reduction than with 0.063-in. oriticed nut
28	Stage all nut only, 0.052-in. orassed but	Greater reduction the with 0.063-in. oriticed nut
29	Stage fill nut only, dual 0.052%,n. orificed but, internal but cavity recepsed	Levels blightly greater than other orificed-nut runs
30	Stage 114 nut only, dual 0.052-in. orificed but, no internal recess	Similar to reductions obtained with single 0.052-in. ori'l ed nut
31	Stage follows only, wingle 0.052-in- distilled out	similar to other 0.052-in. origiced-nut runs
32	Stage III nut only, dual 0.052-11. orificed nut	similar to other 0.052-in. orificed-nut runs
33	Stage III nut only, wingle 0.052-in. orificed nut	similar to other 0.052-in. oriticed-nut runs
34	Stage 111 nut only, dual 0.052-in, orificed nut	Similar to other 0.052-in. orificed-nut runs
35	Stage III nut only, isolator at truss bottom bracket	Yodu tion or levels at truss botton, truss top sintler to biseline
36	Stage III nut only, isolator at truss bottom	Reduction only at trusk bottom
37	Stage III nut only, isolator at truss bottom	Reduction only at cruke botton
38	Stige 'II nut only, Juli 0.032-in, orificed nut, truss bottom-bracket isolation	Keduction of truss bottom greater than with orificed nuts alone
39	Stage III nut only, truss bottom bracket removed	Truss bottom levet similar to that with isolation
40	Stage III nut only, truss bottom bracket isolated. top bracket removed	Truss level very low
41	Dual separation nuts, dual 0.052-in, orificed nuts	Similar to other 0.052-in, orificed-nut runs
42	Dual separation nuts, truss bottom isolation, dual 0.052-in, orificed nuts	Levels similar to orificed-nut run without isolation
43	Dual separation nuts, truss bottom isolation, dual 0.052-in. orificed nuts	76-d8 reduction from ordificed-nut run without isolation
44	Dual separation nuts, truss bottom isolation	levels similar to baseline
45	Dual separation nuts, full truss isolation	₹ 6-dB reduction from breeline
46	Dual separation nuts, full trues isolation	Longeron levels very high, truss levels slightly lower than baseline
47	Dual separation nuts, full truss isolation	> 6-dB reduction from baseline
48	Dual separation nuts, full trues isolation, dual 0.052-in. orificed nuts	levels slightly lower than with oriticed nuts only
49	Dual separation nuts, full truss isolution, dual 0.052-in, orificed nuts	levels slightly lower than with orificed nuts only
50	Dual Separation nuts, full truss isolation, dual 0.052-in. orificed nuts	Levels slightly lower than with orificed nuts only (neasurement on Accelerometer 13 appeared abnormally high
51	Dual separation nuts, full truss isolation	≥ 6-dB reduction from baseline

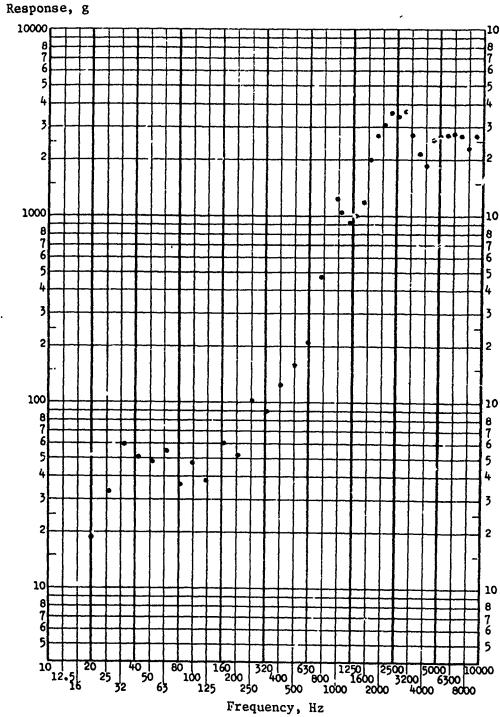
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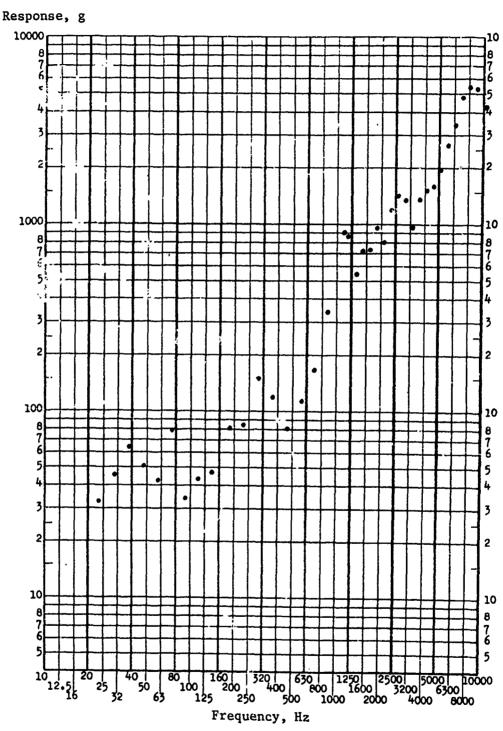
Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 1 Run ! Shock Response Spectrum



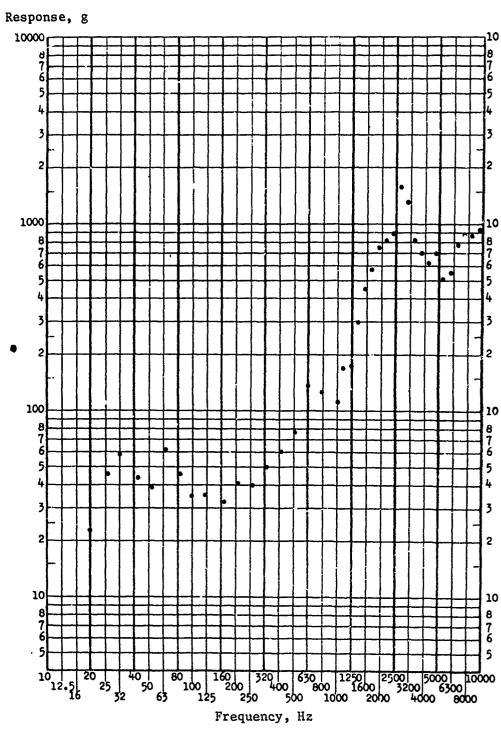
Bench Shock Test - Stage II/III Separation, Run 1 Measurement No. 2 - Tangential axis longeron near station 133

Figure 1 (cont)



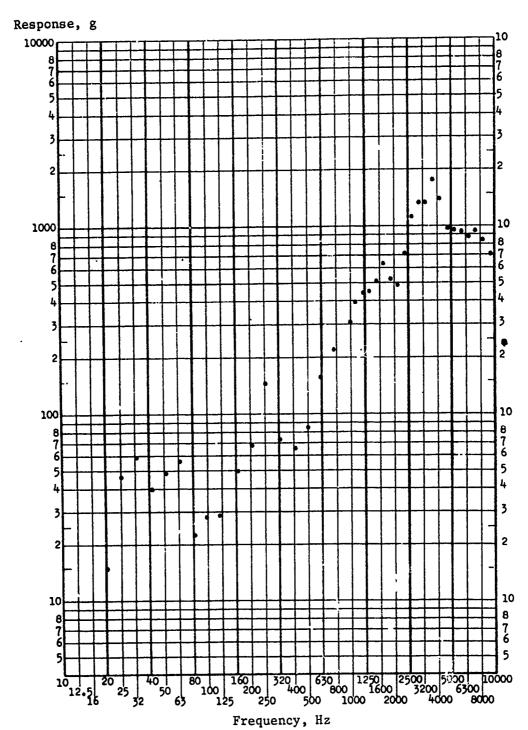
Bench Shock Test - Stage II/III Separation, Run 1 Measurement No. 3 - Radial axis longeron near station 133

Figure 1 (cont)



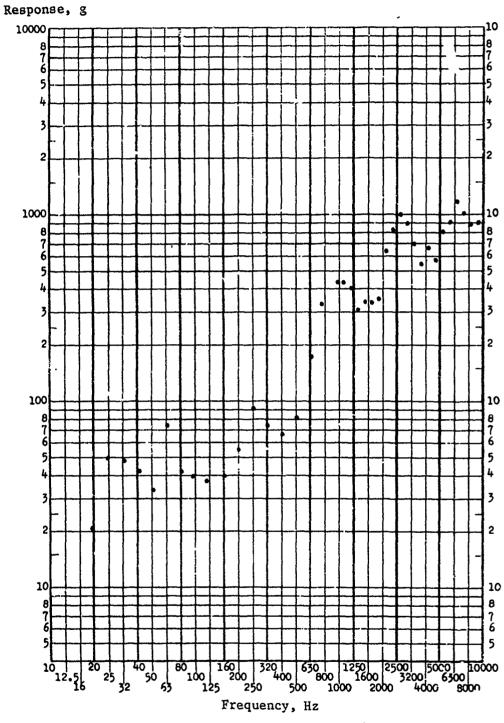
Bench Shock Test - Stage II/III Separation, Run 1 Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 1 (cont)



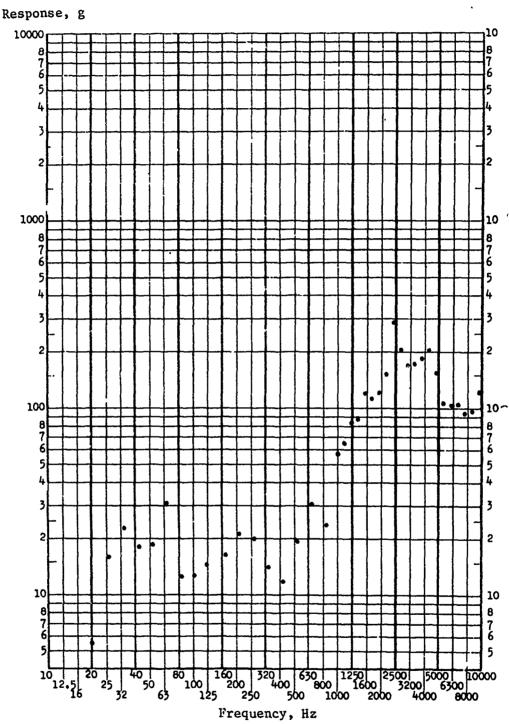
Bench Shock Test - Stage II/III Separation, Run 1 Measurement No. 5 - Tangential axis longeron near station 117

Figure 1 (cont)



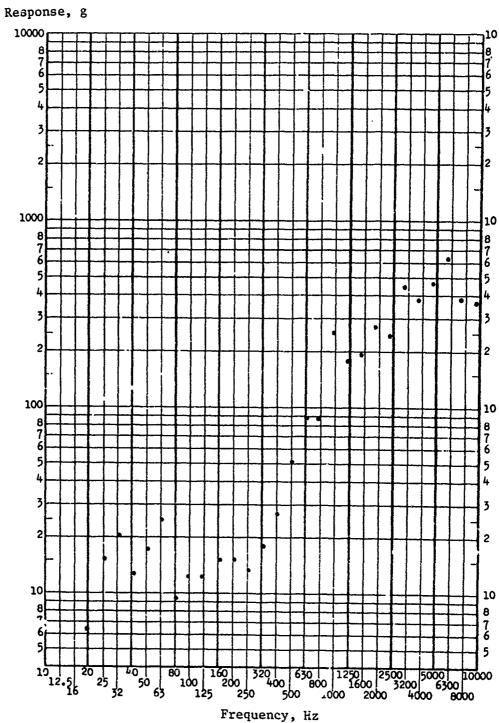
Bench Shock Test - Stage II/III Separation, Run 1 Measurement No. 6 - Radial axis longeron near station 117

Figure 1 (cont)



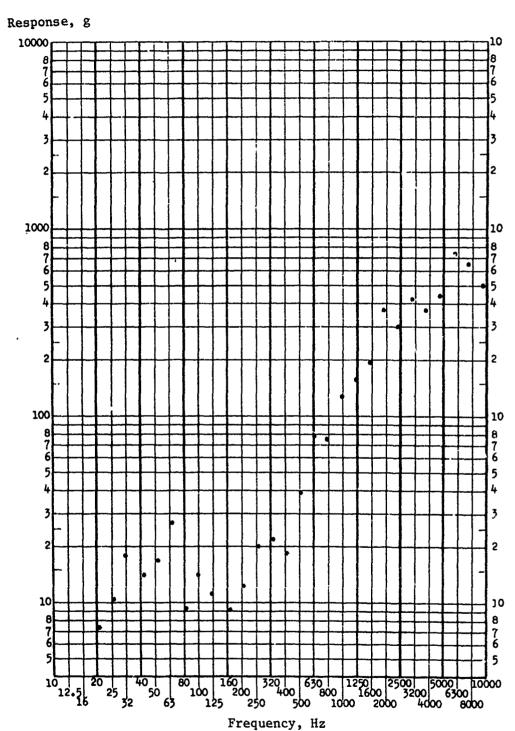
Bench Shock Test - Stage II/III Separation, Run 1 Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 1 (cont)



Bench Shock Test - Stage II/III Separation, Run 1 Measurement No. 8 - Tangential axis longeron near station 77

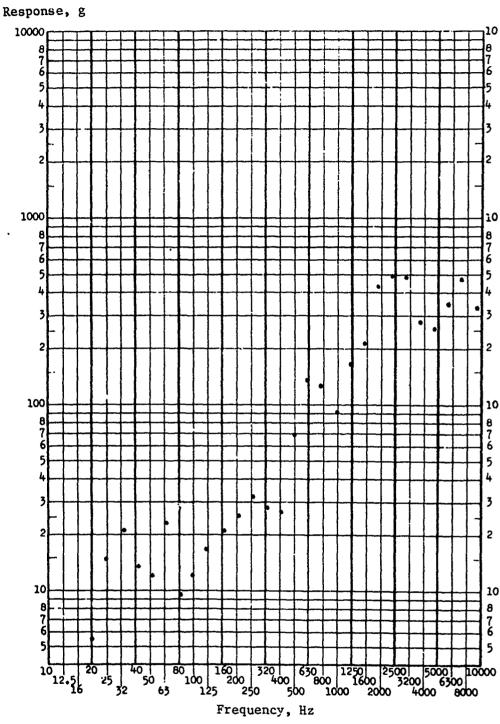
Figure 1 (cont)



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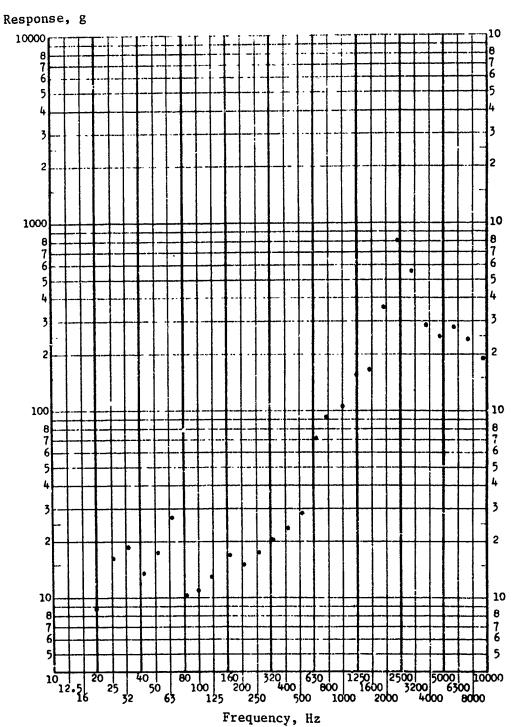
Bench Shock Test - Stage II/III Separation, Run 1 Measurement No. 9 - Radial axis longeron near station 77

Figure 1 (cont)



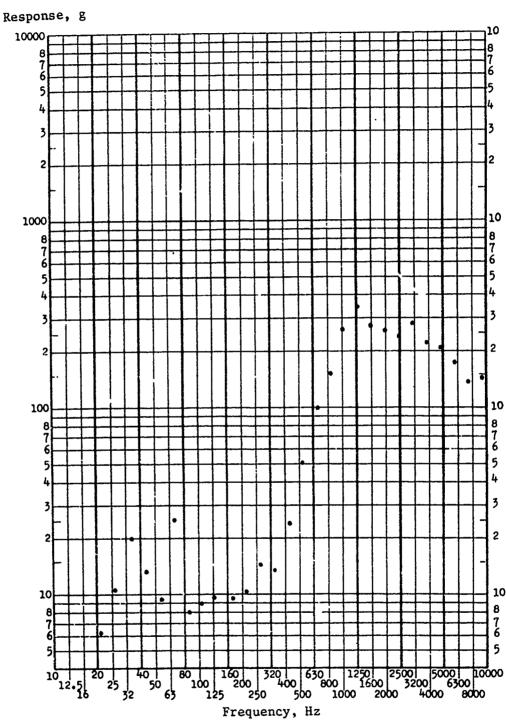
Bench Shock Test - Stage II/III Separation, Run 1 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 1 (cont)



Bench Shock Test - Stage II/III Separation, Run 1 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

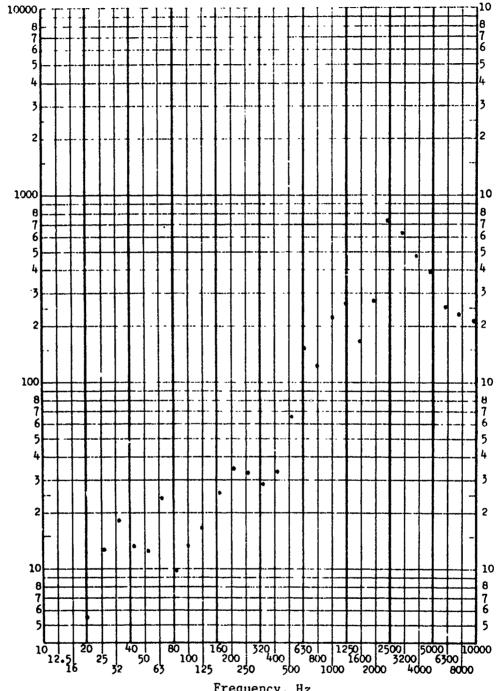
Figure 1 (cont)



Bench Shock Test - Stage II/III Separation, Run 1 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 1 (cont)

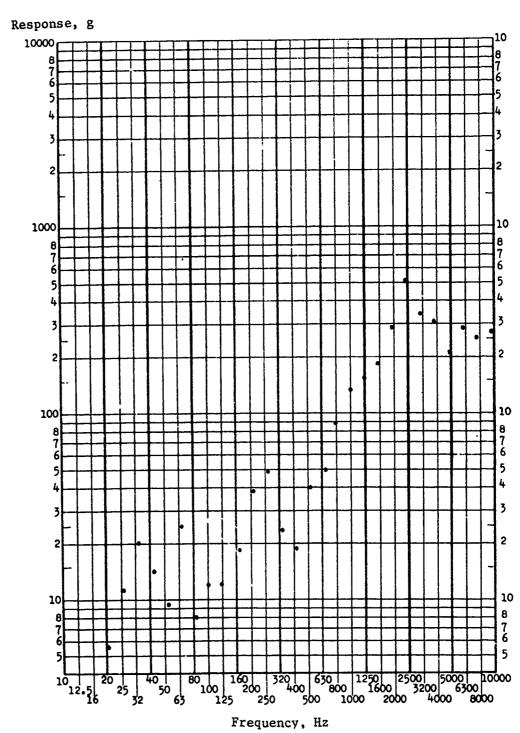




Frequency, Hz

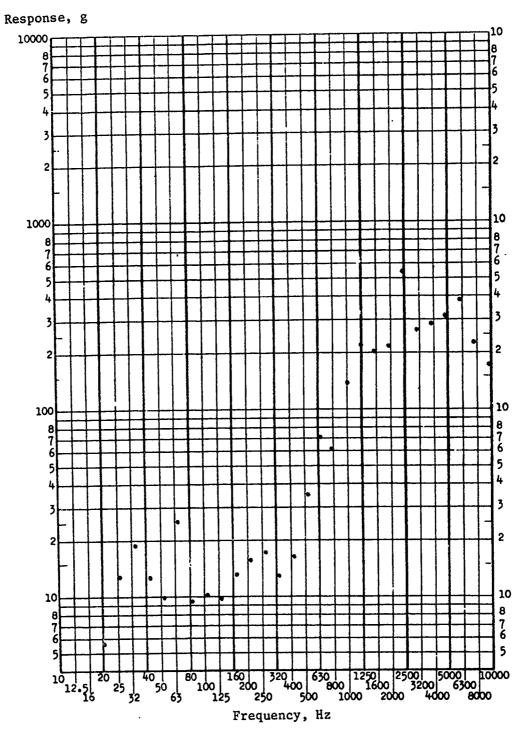
Bench Shock Test - Stage II/III Separation, Run 1 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 1 (cont)



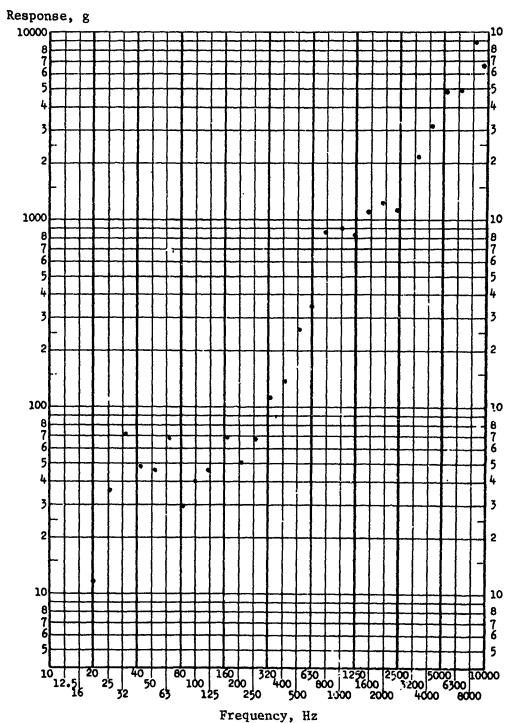
Bench Shock Test - Stage II/III Separation, Run 1 Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 1 (cont)



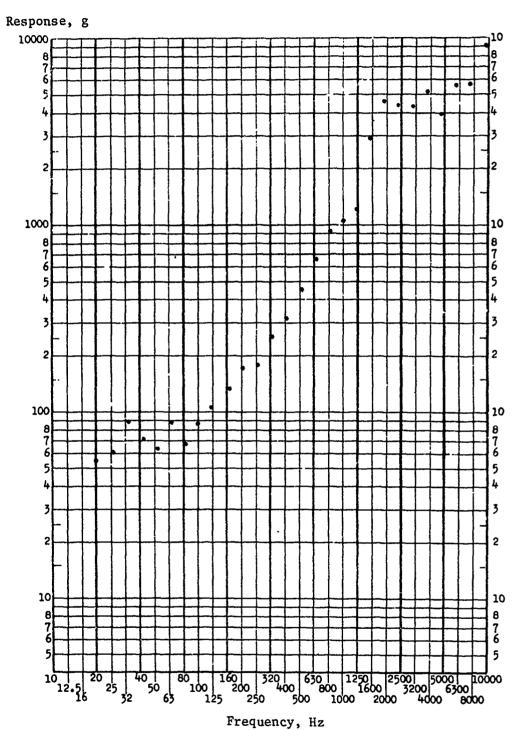
Bench Shock Test - Stage II/III Separation, Run 1 Measurement No. 15 - Lateral axis truss top near longeron attach point

Figure 1 (concl)



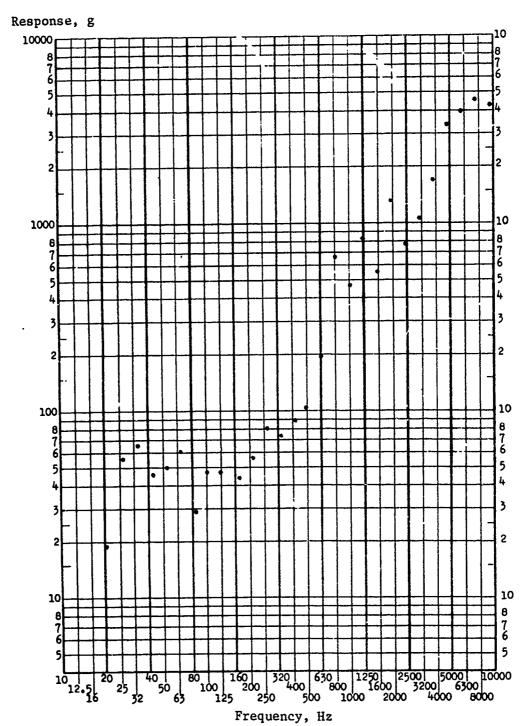
Bench Shock Test - Stage II/III Separation, Run 2 Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 2 Run 2 Shock Response Spectrum



Bench Shock Test - Stage II/III Separation, Run 2 Measurement No. 2 - Tangential axis longeron near station 133

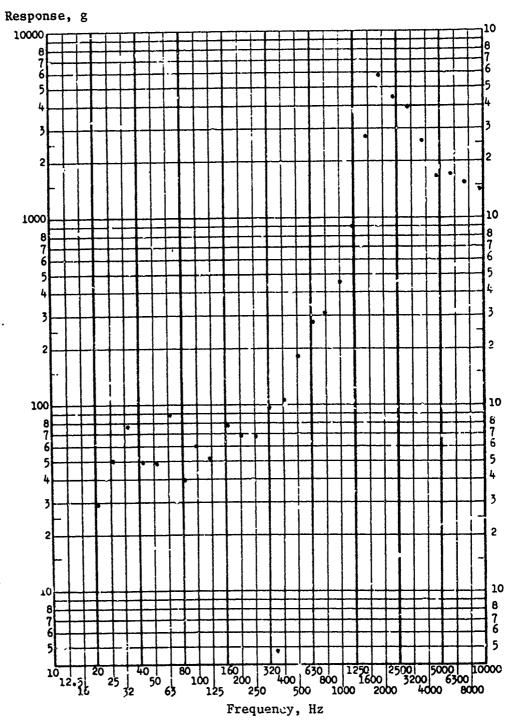
Figure 2 (cont)



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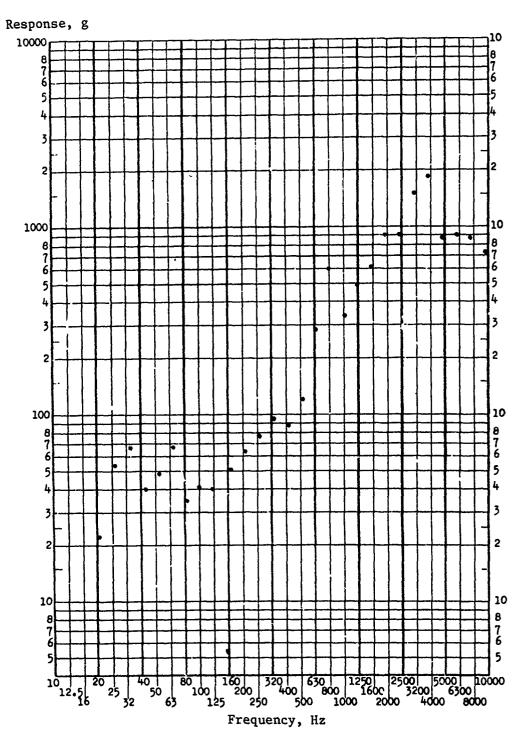
Bench Shock Test - Stage II/III Separation, Run 2 Measurement No. 3 - Radial axis longeron near station 133

Figure 2 (cont)



Bench Shock Test - Stage II/III Separation, Run 2 Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 2 (cont)



Bench Shock Test - Stage II/III Separation, Run 2 Measurement No. 5 - Tangential axis longeron near station 117

Figure 2 (cont)

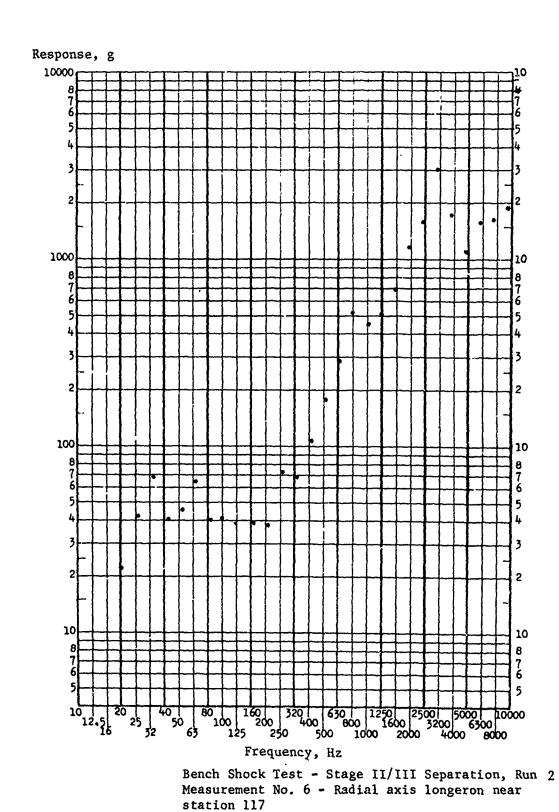
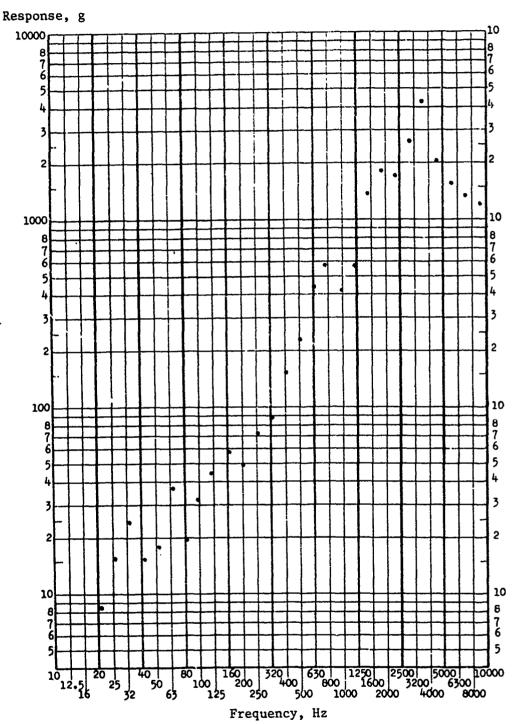
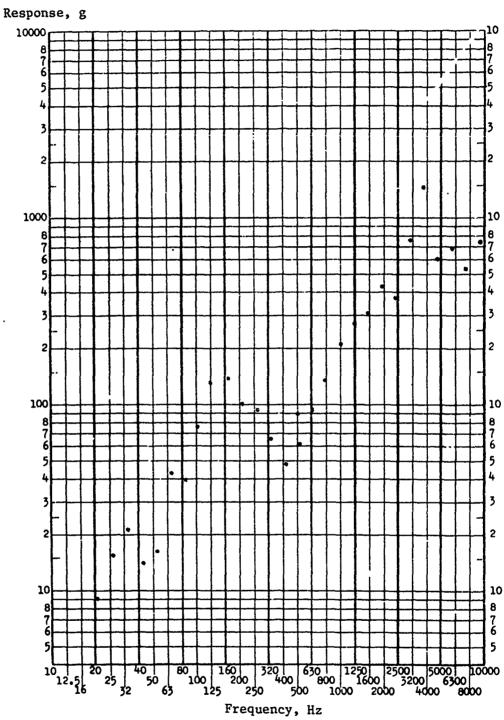


Figure 2 (cont)



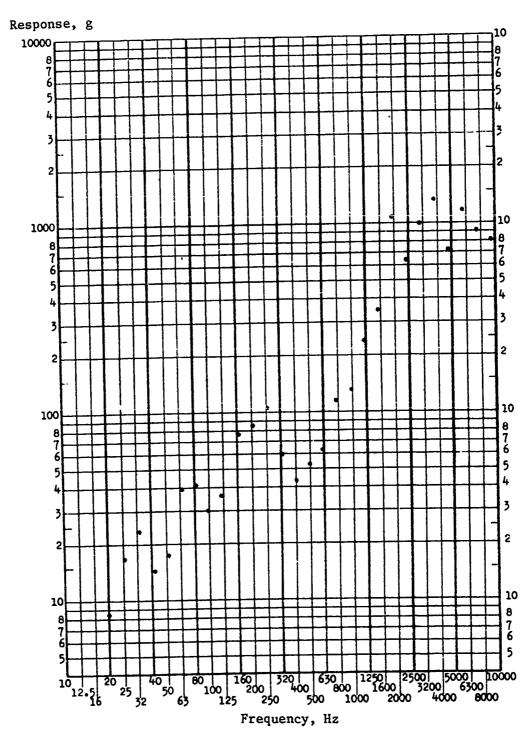
Bench Shock Test - Stage II/III Separation, Run 2 Measurement No. 7 - Longitudinal axis longeron near station 77

Figure (cont)



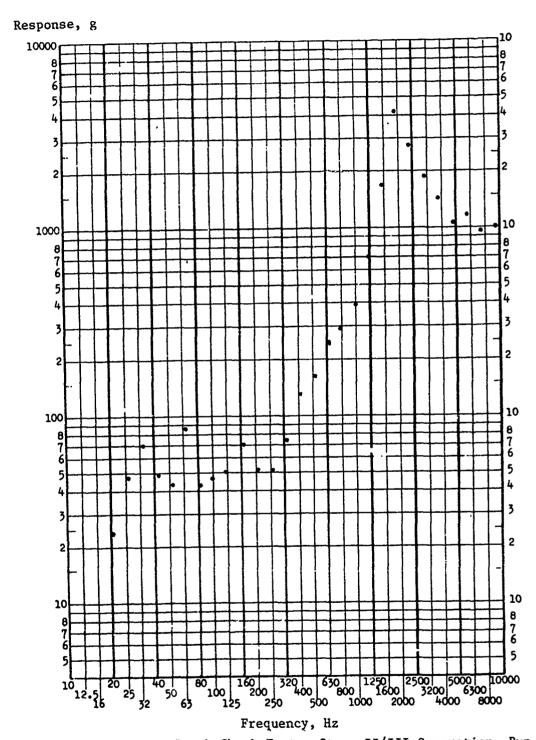
Bench Shock Test - Stage II/III Separation, Run 2 Measurement No. 8 - Tangential axis longeron near station 77

Figure 2 (cont)



Bench Shock Test - Stage II/III Separation, Run 2 Measurement No. 9 - Radial axis longeron near station 77

Figure 2 (cont)

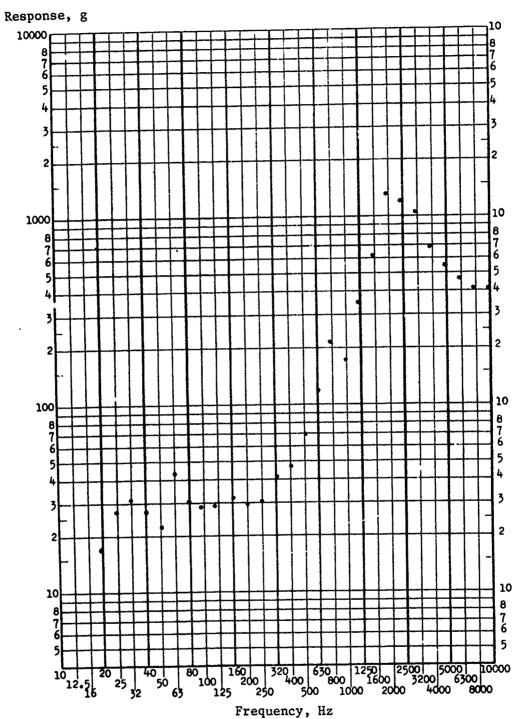


Bench Shock Test - Stage II/III Separation, Run 2 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 2 (cont)

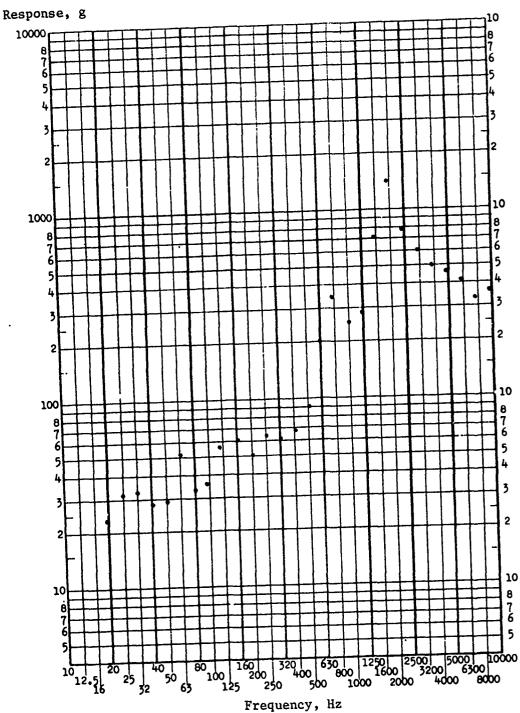
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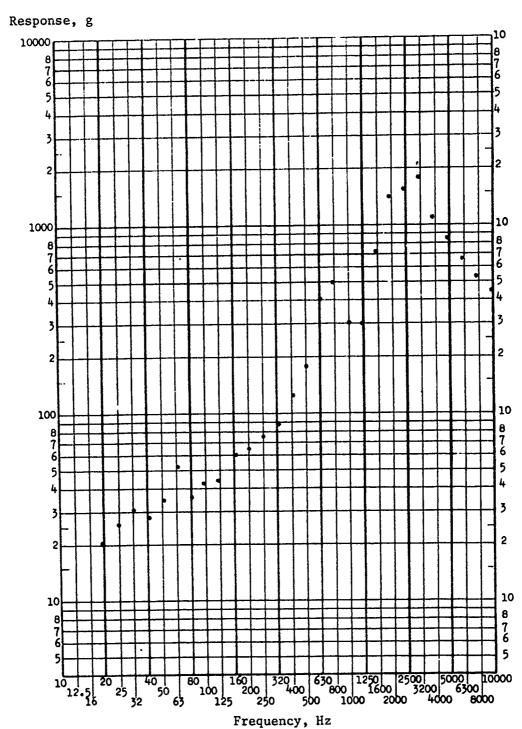
Bench Shock Test - Stage II/III Separation, Run 2 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 2 (cont)



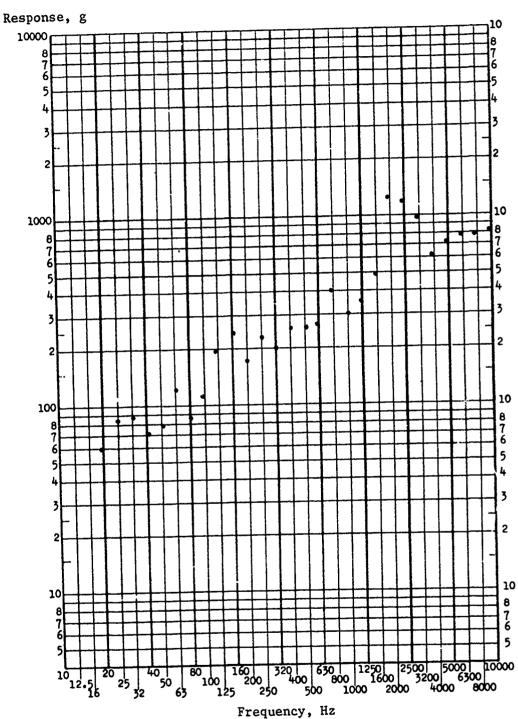
Bench Shock Test - Stage II/III Separation, Run 2 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 2 (cont)



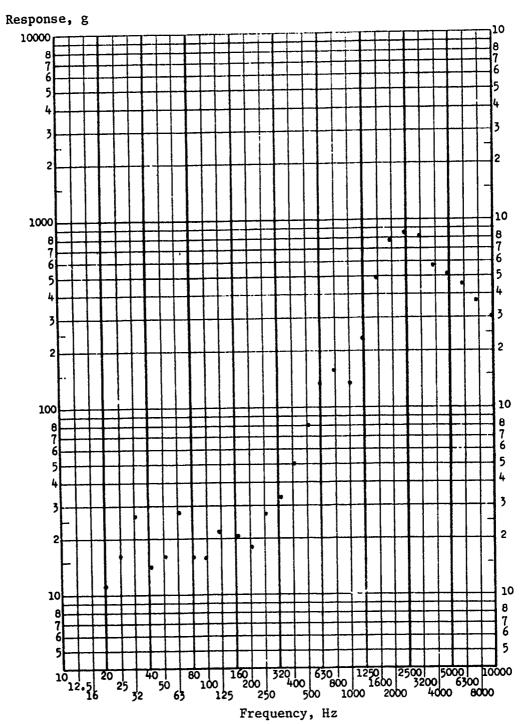
Bench Shock Test - Stage II/III Separation, Run 2 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 2 (cont)



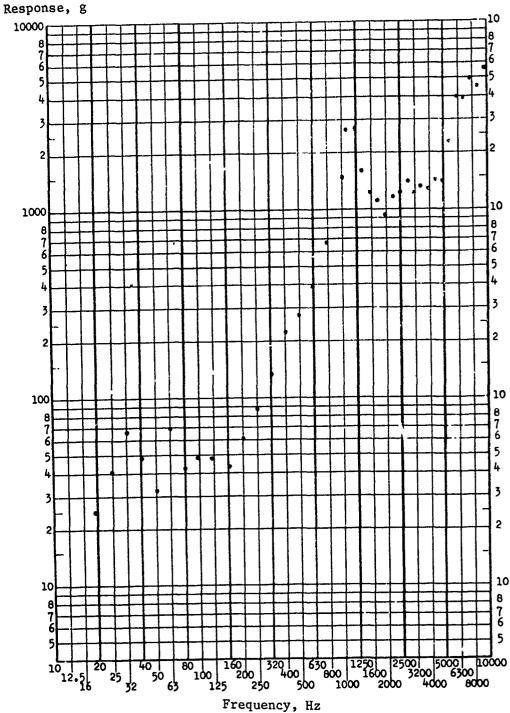
Bench Shock Test - Stage II/III Separation, Run 2 Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 2 (cont)



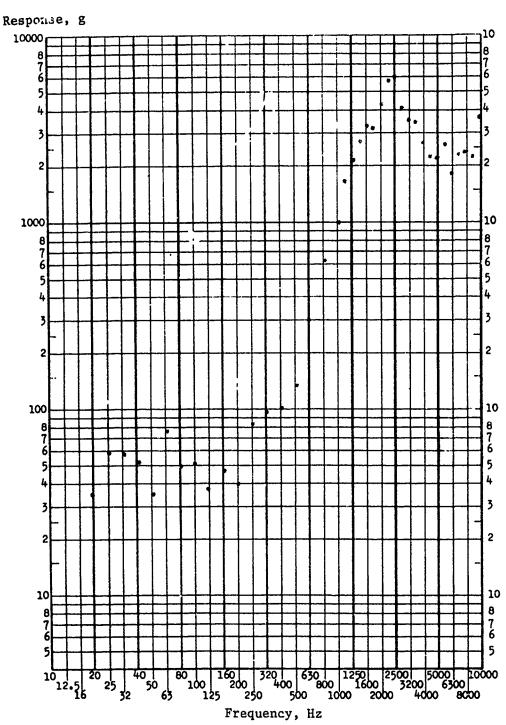
Bench Shock Test - Stage II/III Separation, Run 2 Measurement No. 15 - Lateral axis truss top near longeron attach point

Figure 2 (concl)



Bench Shock Test - Stage II/III Separation, Run 3 Measurement No. 1 - Longitudinal axis longeron near station 133

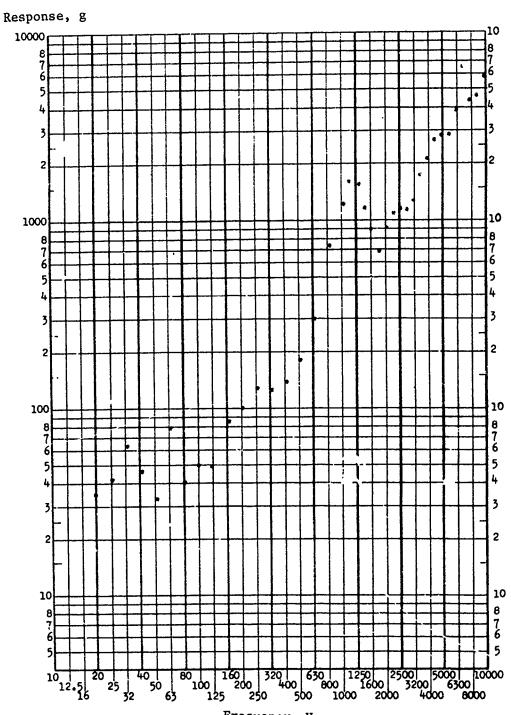
Figure 3 Run 3 Shock Response Spectrum



Bench Shock Test - Stage II/III Separation, Run 3 Measurement No. 2 - Tangential axis longeron near station 133

Figure 3 (cont)

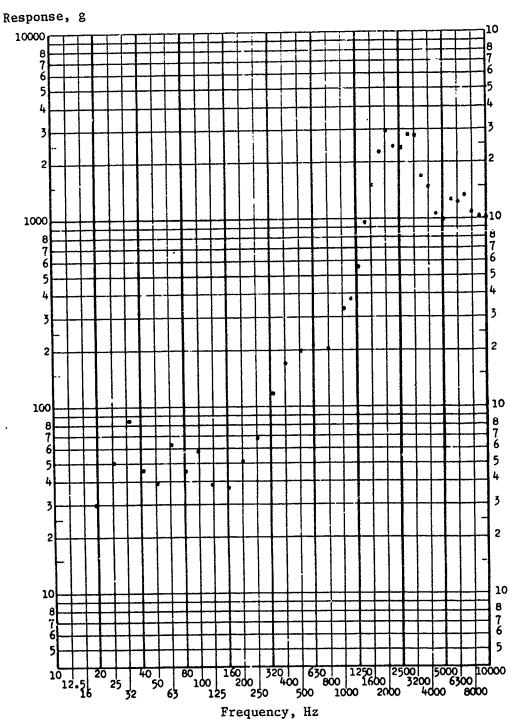
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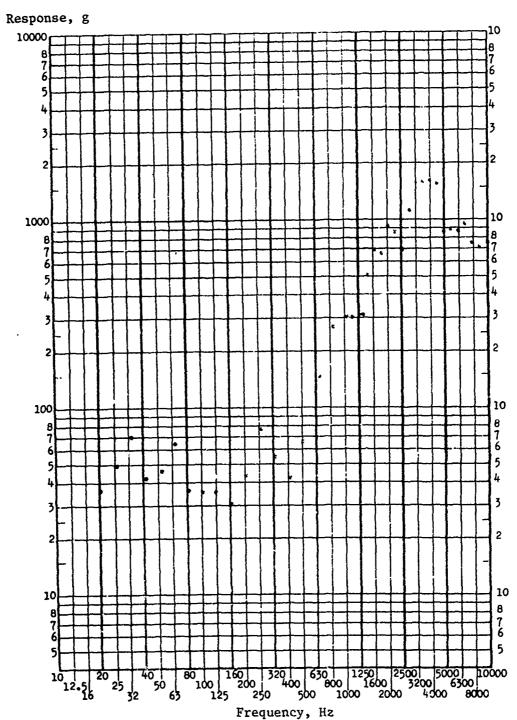
Frequency, Hz
Bench Shock Test - Stage II/III Separation, Run 3
Measurement No. 3 - Radial axis longeron near
station 133

Figure 3 (cont)



Bench Shock Test - Stage II/III Separation, Run 3 Measurement No. 4 - Longitudinal axis longeron near station 117

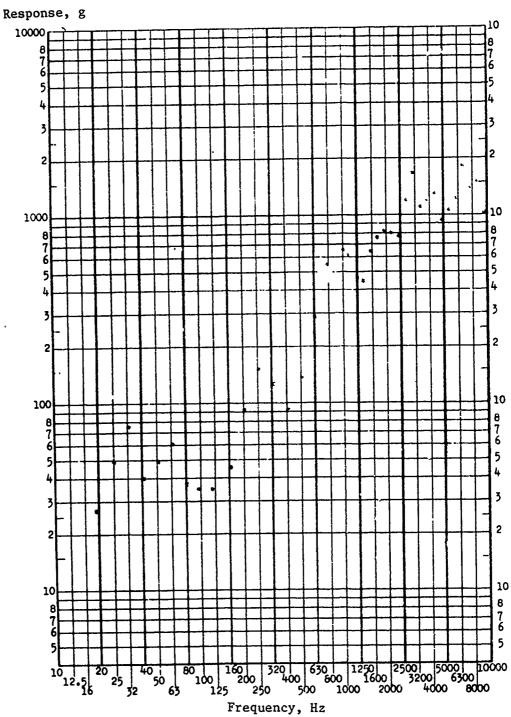
Figure 3 (cont)



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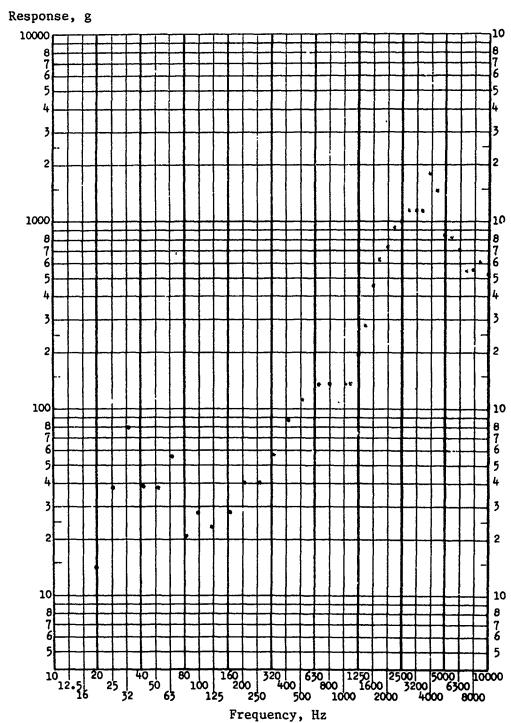
Bench Shock Test - Stage II/III Separation, Run 3 Measurement No. 5 - Tangential axis longeron near station 117

Figure 3 (cont)



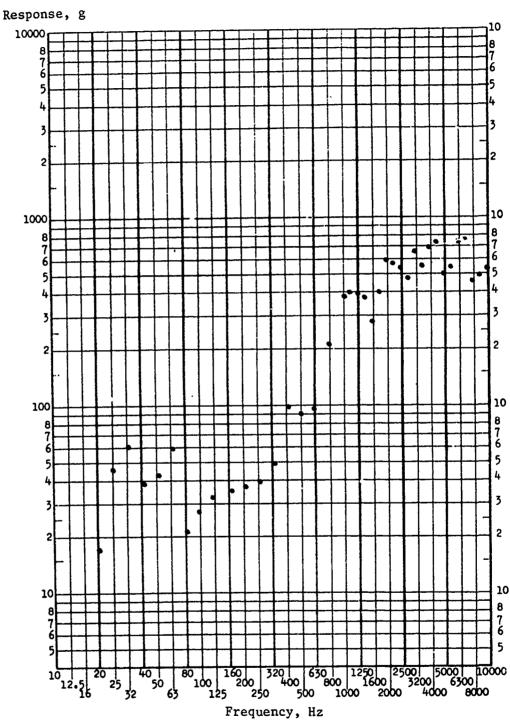
Bench Shock Test - Stage II/III Separation, Run 3 Measurement No. 6 - Radial axis longeron near station 117

Figure 3 (cont)



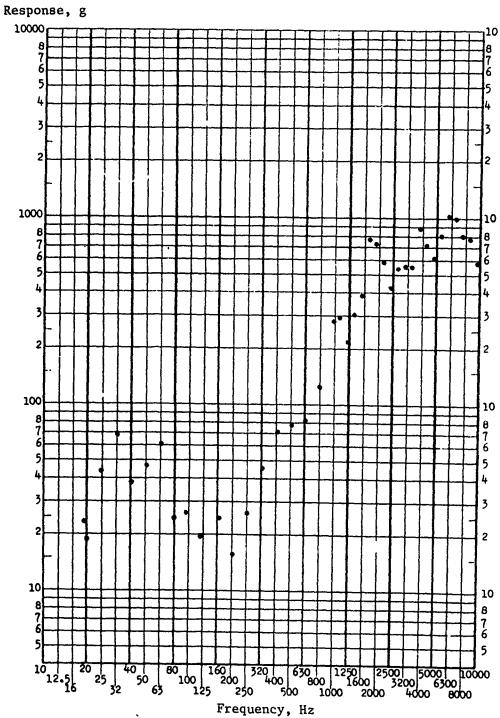
Bench Shock Test - Stage II/III Separation, Run 3 Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 3 (cont)



Bench Shock Test - Stage II/III Separation, Run 3 Measurement No. 8 - Tangential axis longeron near station 77

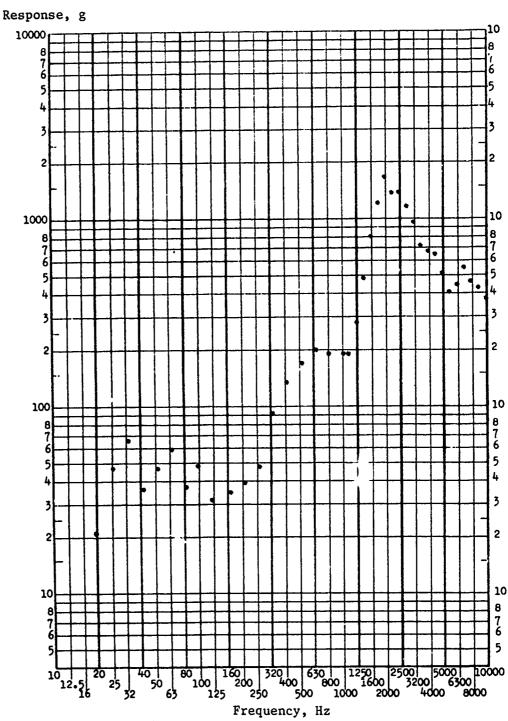
Figure 3 (cont)



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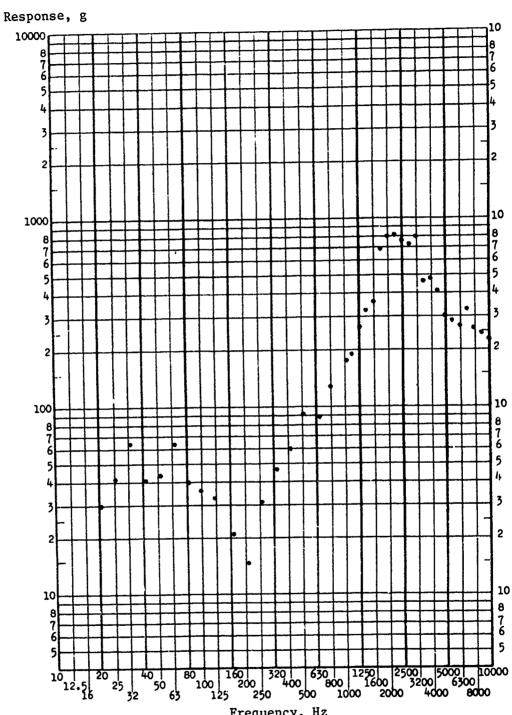
Bench Shock Test - Stage II/III Separation, Run 3.
Measurement No. 9 - Radial axis longeron near
station 77

Figure 3 (cont)



Bench Shock Test - Stage II/III Separation, Run 3 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 3 (cont)

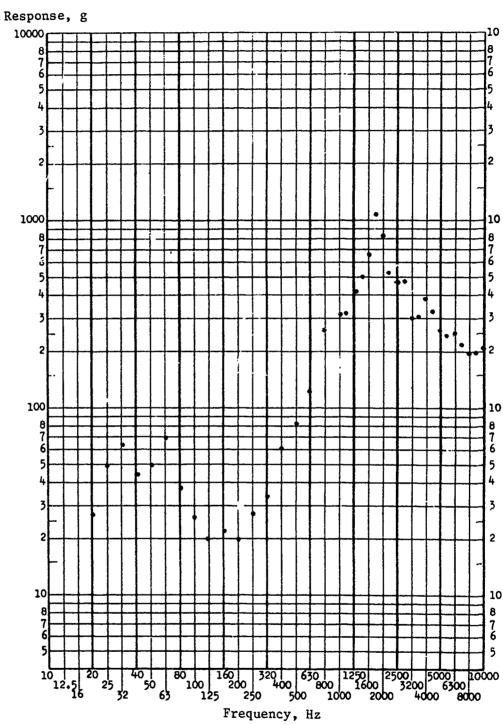


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 3

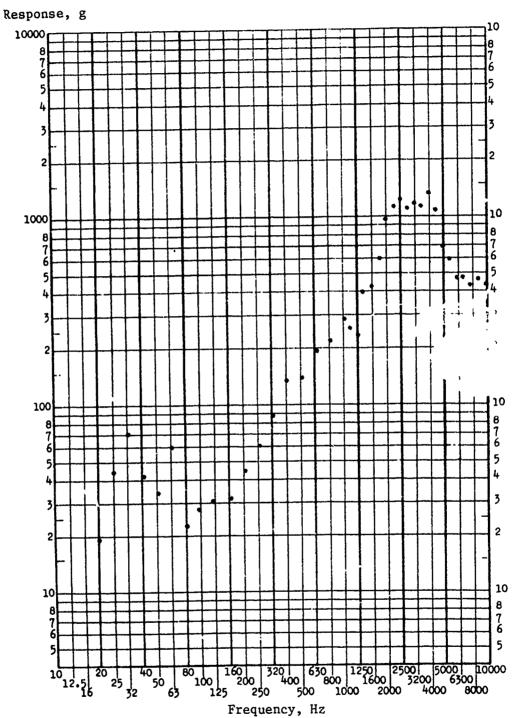
Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 3 (cont)



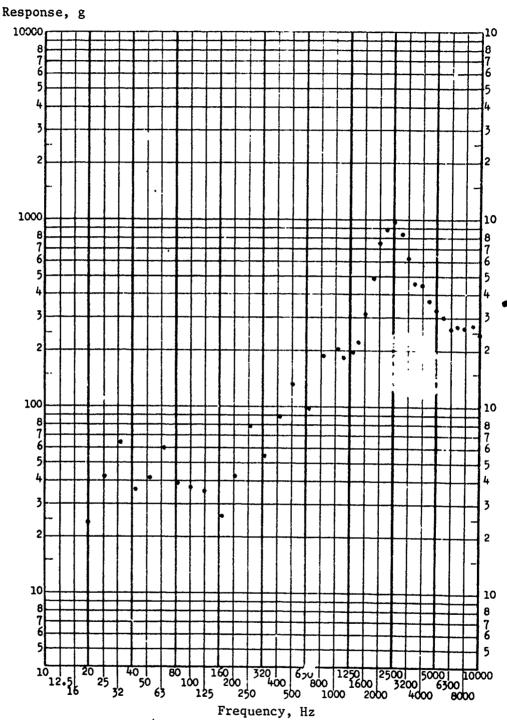
Bench Shock Test - Stage II/III Separation, Run 3 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 3 (cont)



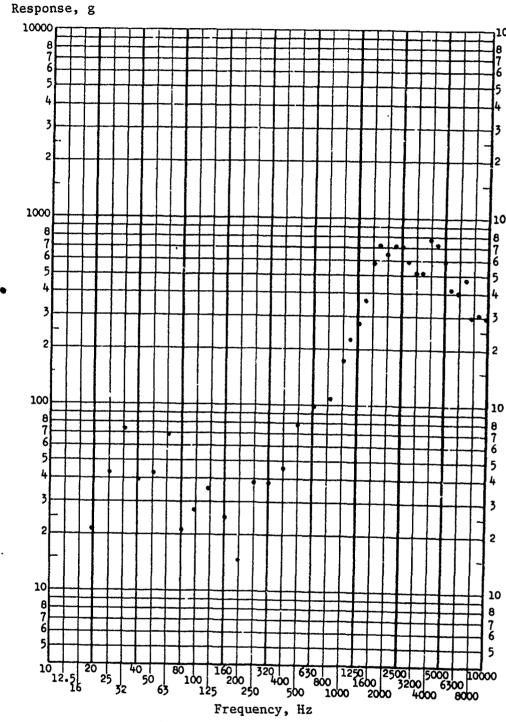
Bench Shock Test - Stage II/III Separation, Run 3 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 3 (cont)



Bench Shock Tes't - Stage II/III Separation, Run 3 Measurement No. 14 - Lateral axis truss top near longeron attach point

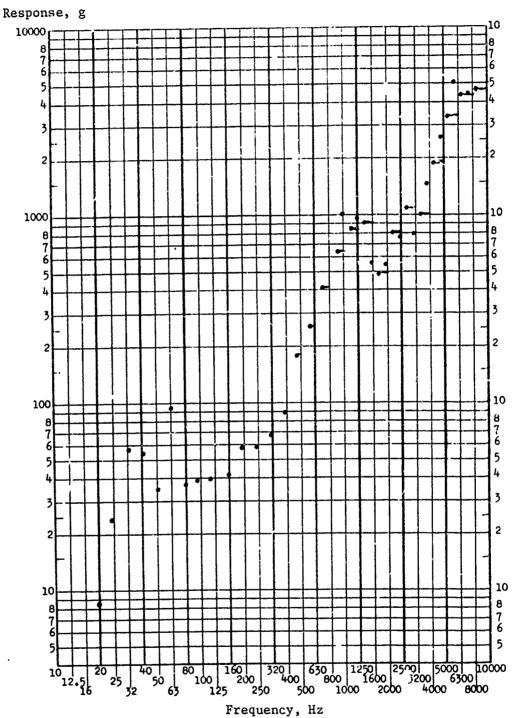
Figure 3 (cont)



Bench Shock Test - Stage II/III Separation, Run 3. Measurement No. 15 - Lateral axis truss top near longeron attach point

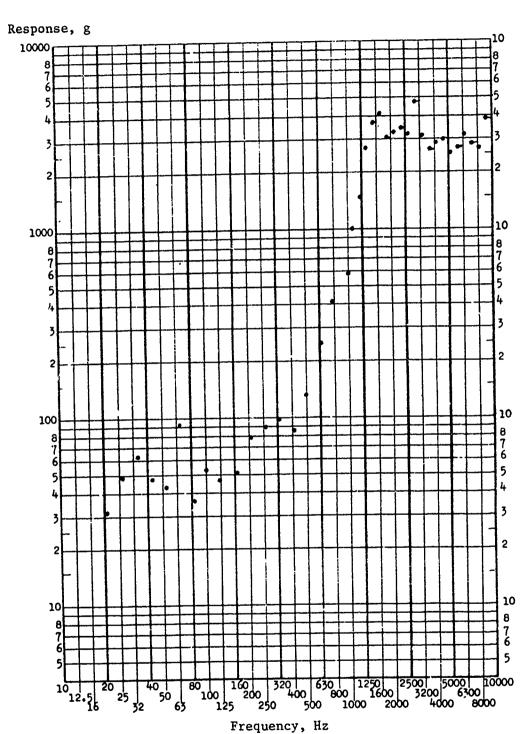
Figure 3 (concl)

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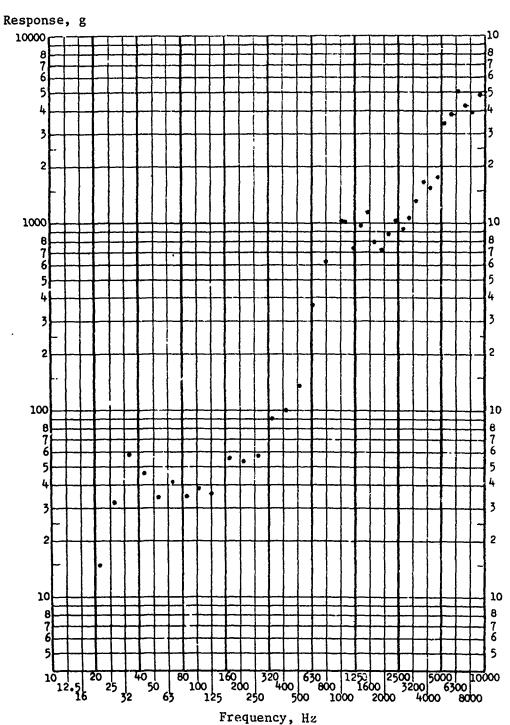
Bench Shock Test - Stage II/III Separation, Run 4 Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 4 Run 4 Shock Response Spectrum



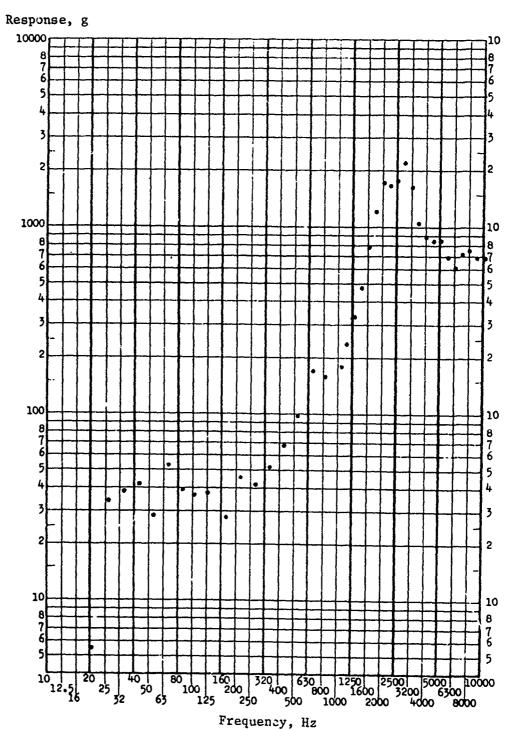
Bench Shock Test - Stage II/III Separation, Run 4 Measurement No. 2 - Tangential axis longeron near station 133

Figure 4 (cont)



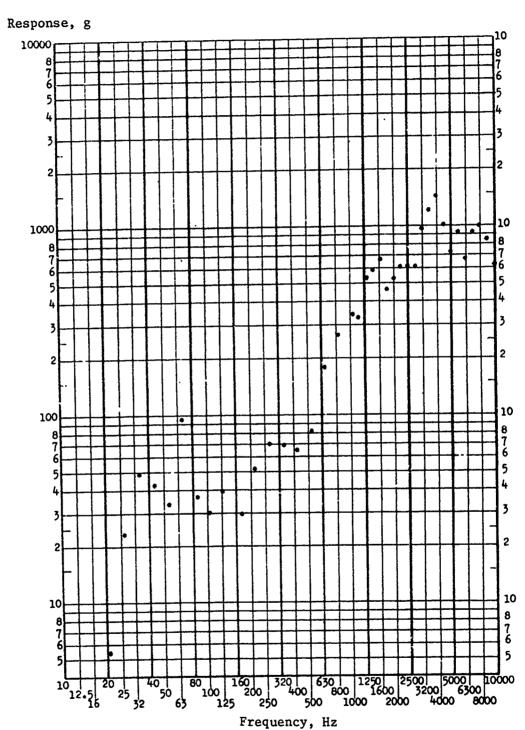
Bench Shock Test - Stage II/III Separation, Run 4 Measurement No. 3 - Radial axis longeron near station 133

Figure 4 (cont)



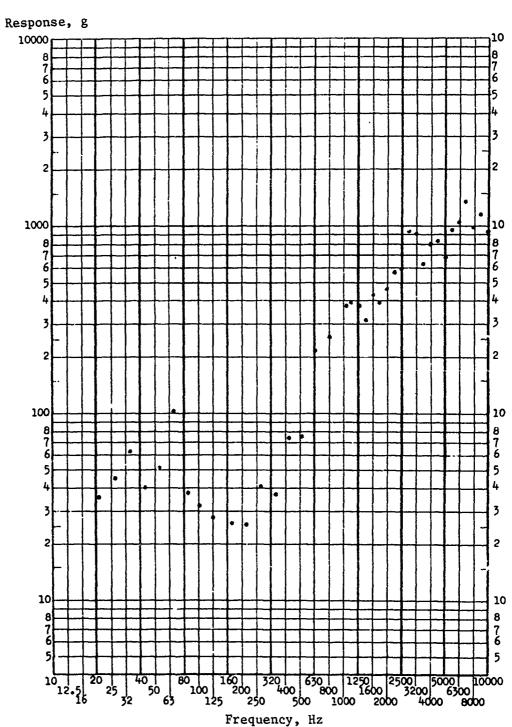
Bench Chock Test - Stage II/III Separation, Run 4 Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 4 (cont)



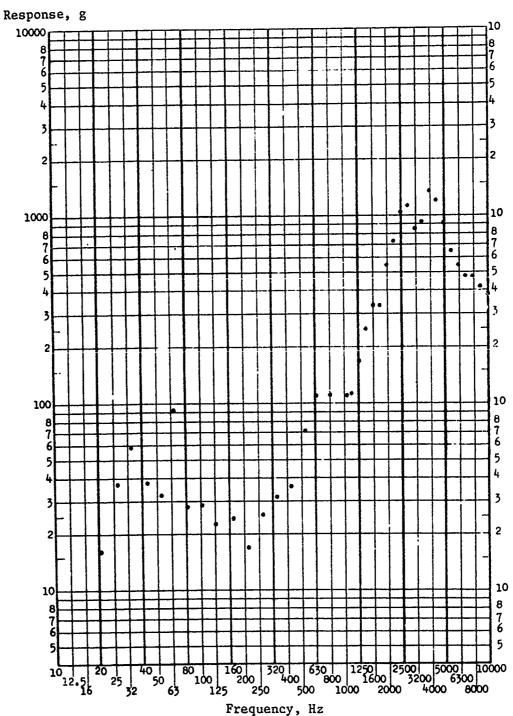
Bench Shock Test - Stage II/III Separation, Run 4 Measurement No. 5 - Tangential axis longeron near station 117

Figure 4 (cont)



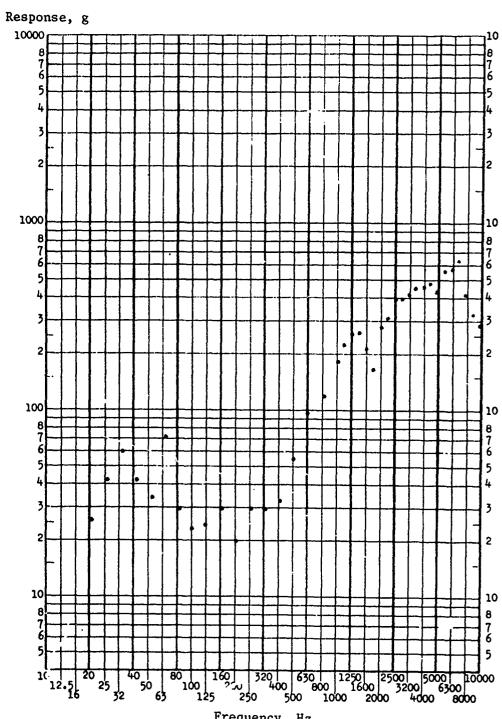
Bench Shock Test - Stage II/III Separation, Run 4 Measurement No. 6 - Radial axis longeron near station 117

Figure 4 (cont)



Bench Shock Test - Stage II/III Separation, Run 4
Measurement No. 7 - Longitudinal axis longeron near
station 77

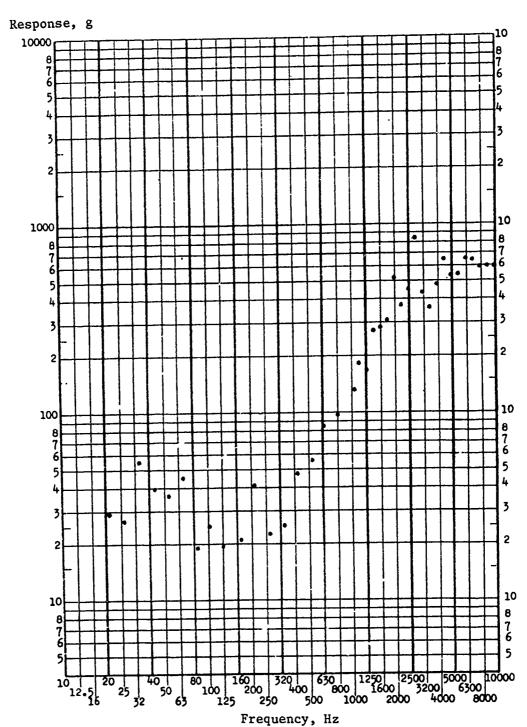
Figure 4 (cont)



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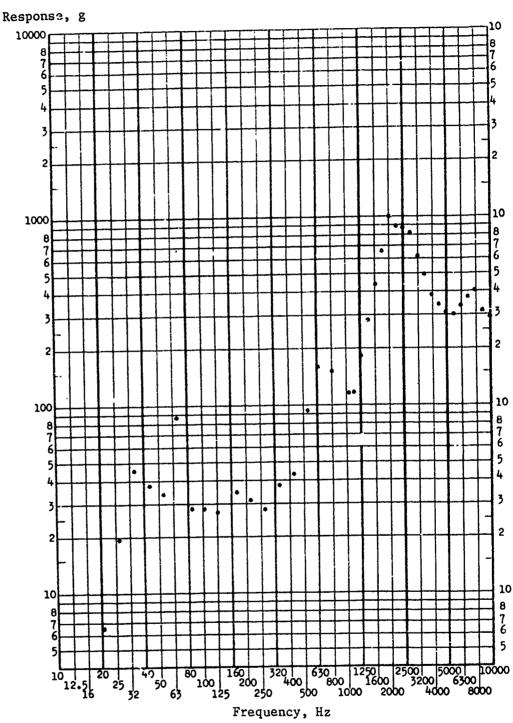
Frequency, Hz
Bench Shock Test - Stage II/III Separation, Run 4
Measurement No. 8 - Tangential axis longeron near
station 77

Figure 4 (cont)



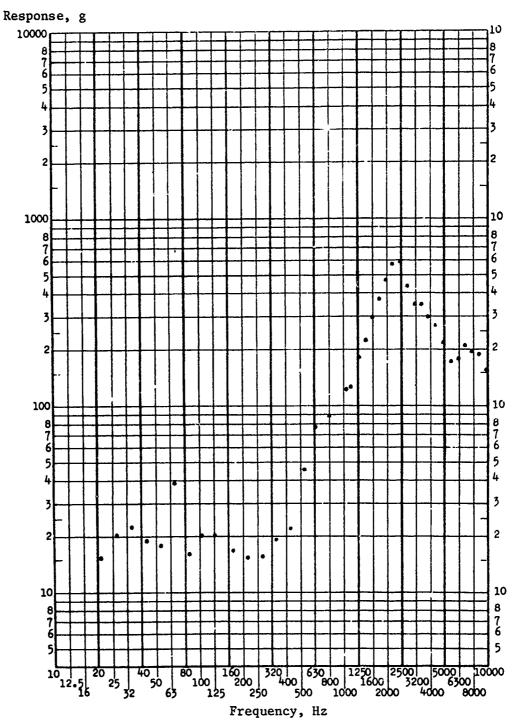
Bench Shock Test - Stage II/III Separation, Run 4 Measurement No. 9 - Radial axis longeron near station 77

Figure 4 (cont)



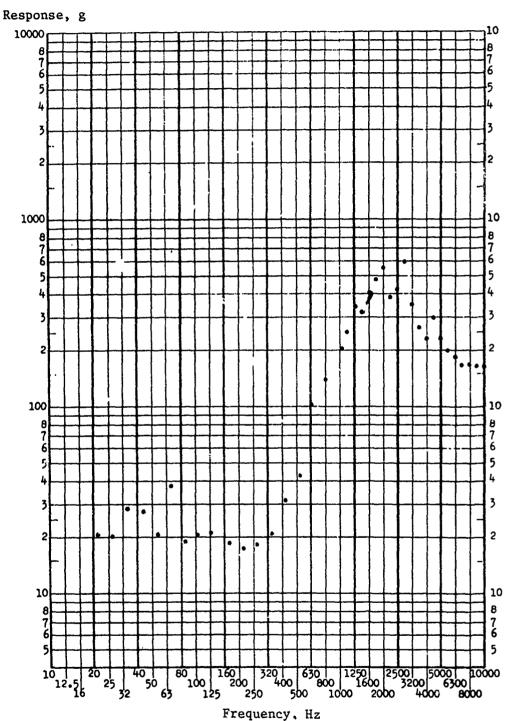
Bench Shock Test - Stage II/III Separation, Run 4 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 4 (cont)



Bench Shock Test - Stage II/III Separation, Run 4 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

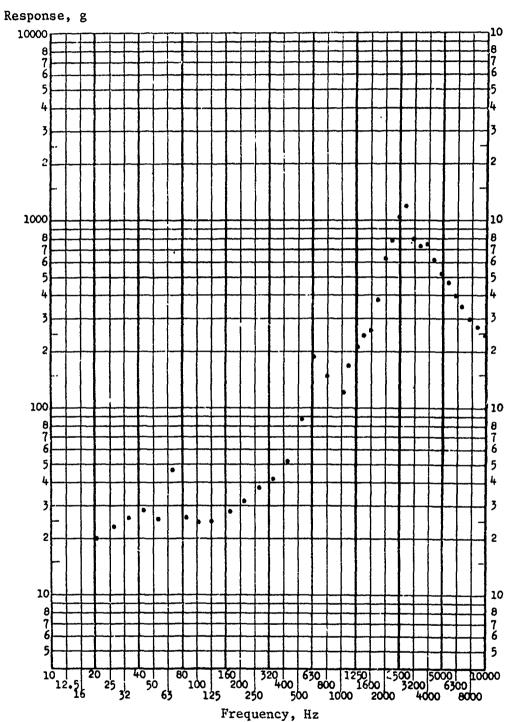
Figure 4 (cont)



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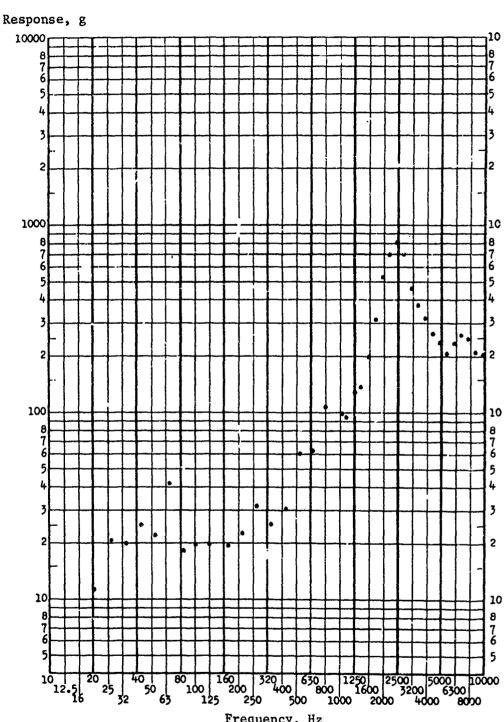
Bench Shock Test - Stage II/III Separation, Run 4 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 4 (cont)



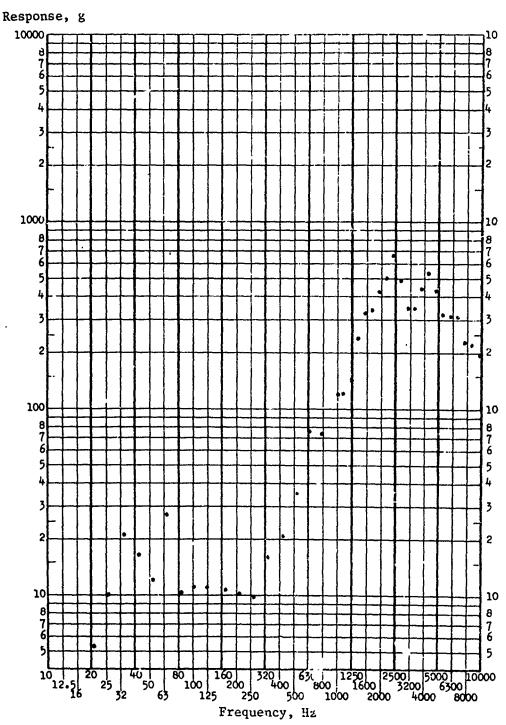
Bench Shock Test - Stage II/III Separation, Run 4 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 4 (cont)



Frequency, Hz
Bench Shock Test - Stage II/III Separation, Run 4
Measurement No. 14 - Lateral axis truss top near
longeron attach point

Figure 4 (cont)

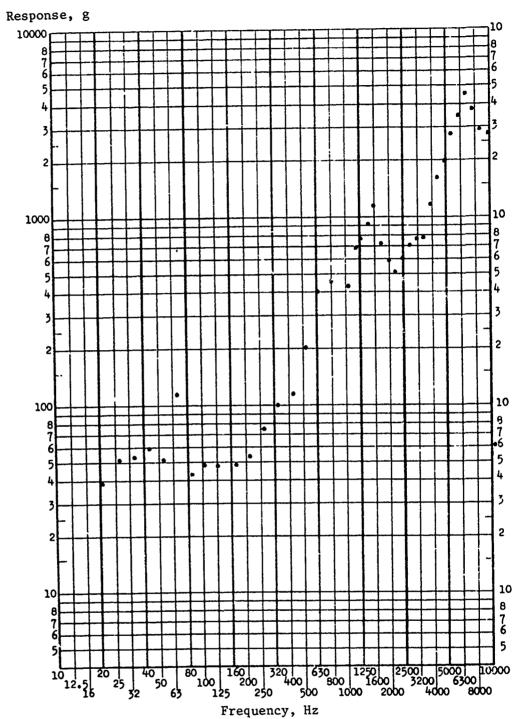


The second secon

Bench Shock Test - Stage II/III Separation, Run 4 Measurement No. 15 - Lateral axis truss top near longeron attach point

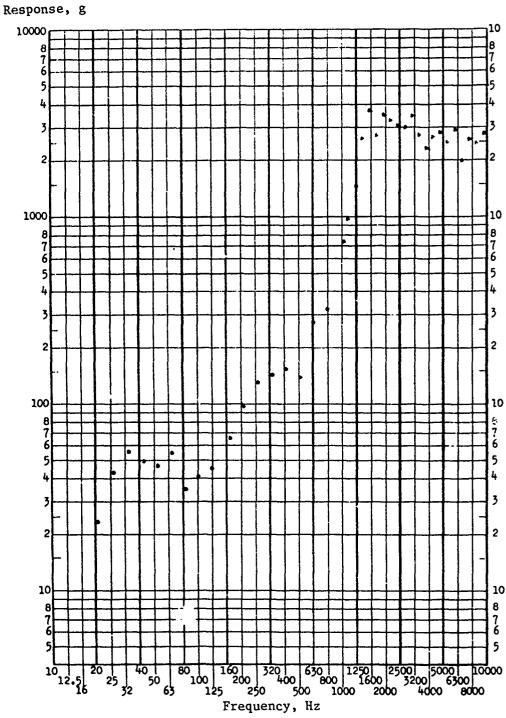
Figure 4 (concl)

A STATE OF THE PROPERTY OF THE



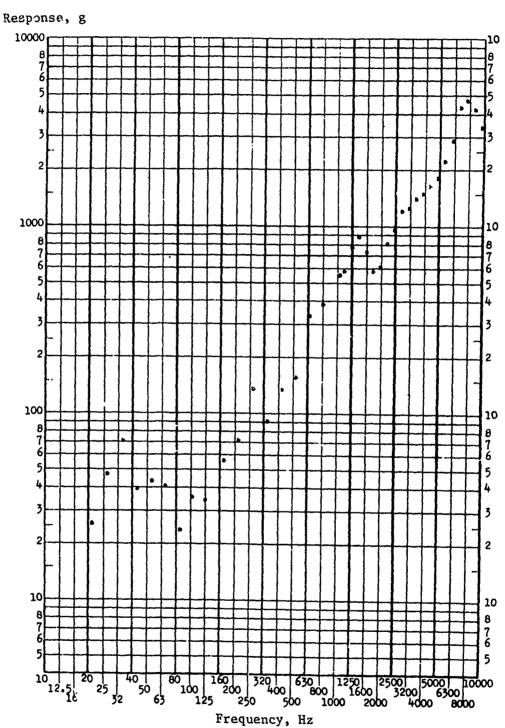
Bench Shock Test - Stage II/III Separation, Run 5 Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 5 Run 5 Shock Response Spectrum



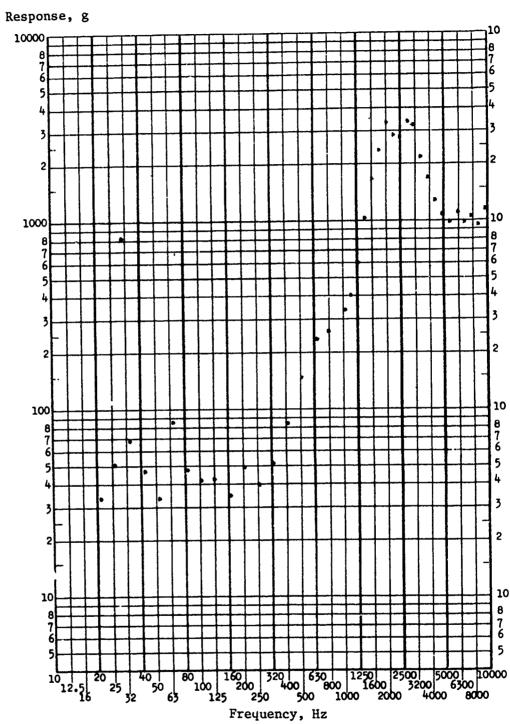
Bench Shock Test - Stage II/III Separation, Run 5 Measurement No. 2 - Tangential axis longeron near station 133

Figure 5 (cont)



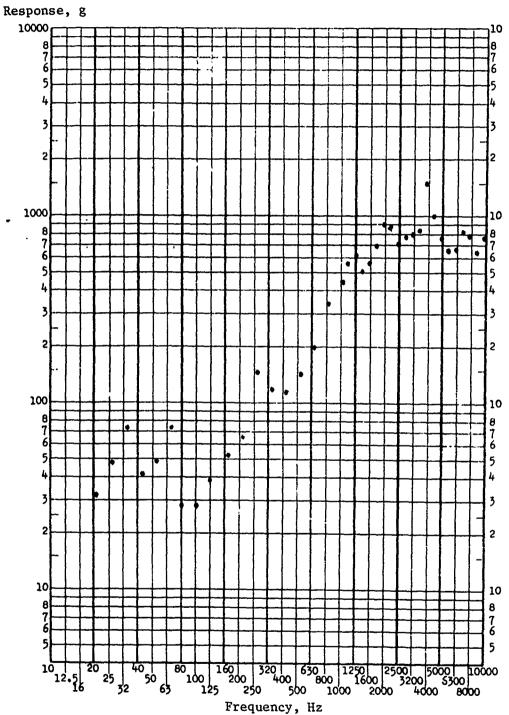
Bench Shock Test - Stage II/III Separation, Run 5 Measurement No. 3 - Radial axis longeron near station 133

Figure 5 (cont)



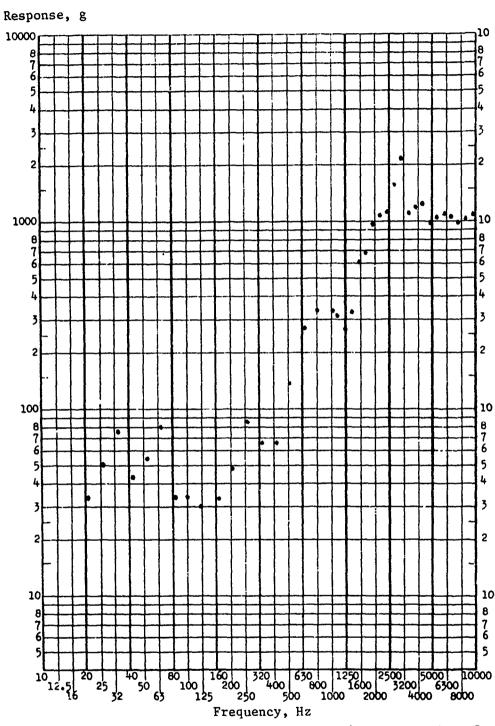
Bench Shock Test - Stage II/III Separation, Run 5 Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 5 (cont)



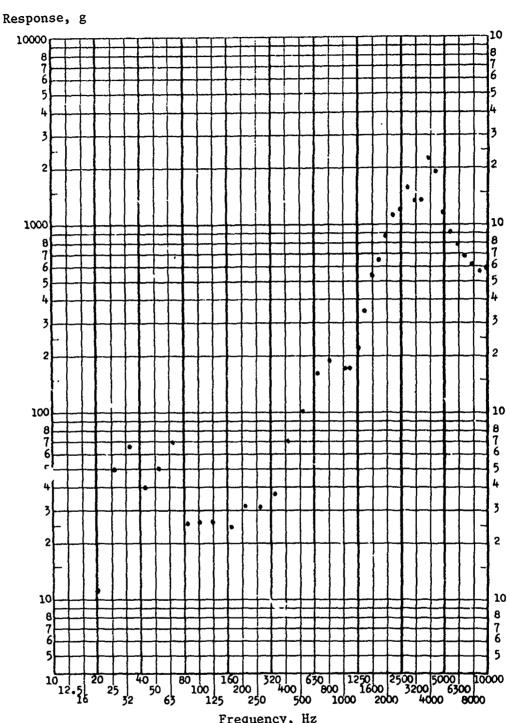
Bench Shock Test - Stage II/III Separation, Run 5 Measurement No. 5 - Tangential axis longeron near station 117

Figure 5 (cont)



Bench Shock Test - Stage II/III Separation, Run 5 Measurement No. 6 - Radial axis longeron near station 117

Figure 5 (cont)



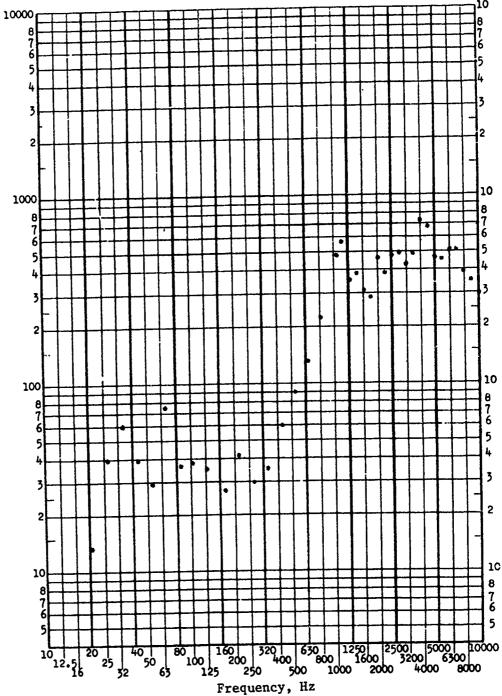
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 5

Measurement No. 7 - Longitudinal axis longeron near station 77

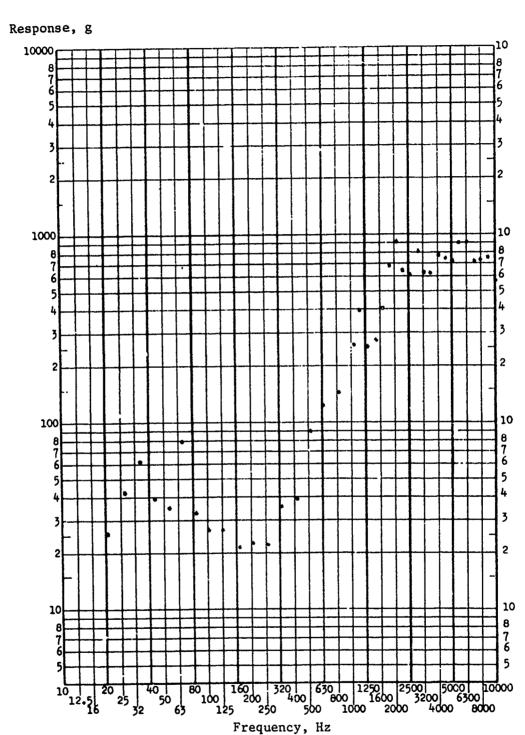
Figure 5 (cont)





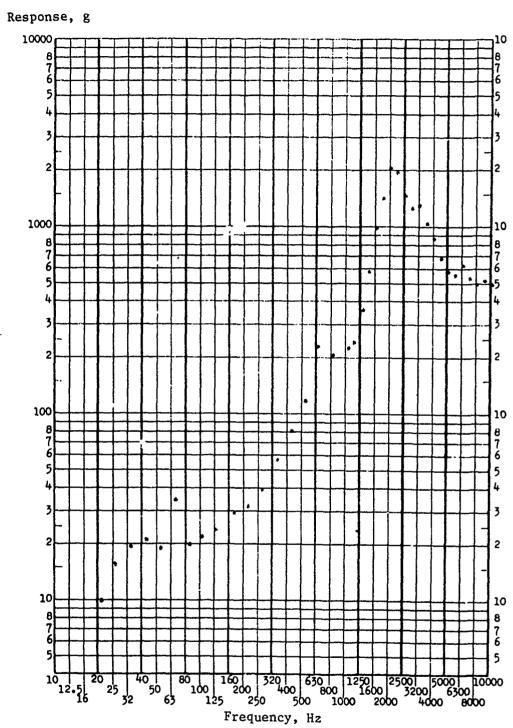
Bench Shock Test - Stage II/III Separation, Run 5 Measurement No. 8 - Tangential axis longeron near station 77

Figure 5 (cont)



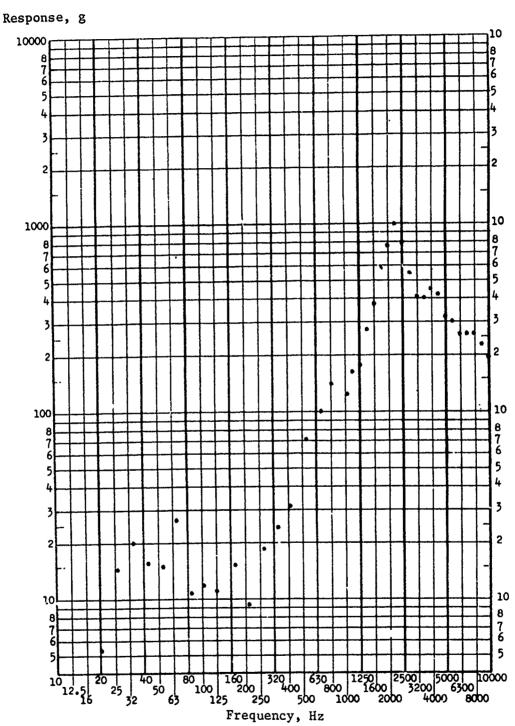
Bench Shock Test - Stage II/III Separation, Run 5 Measurement No. 9 - Radial axis longeron near station 77

Figure 5 (cont)



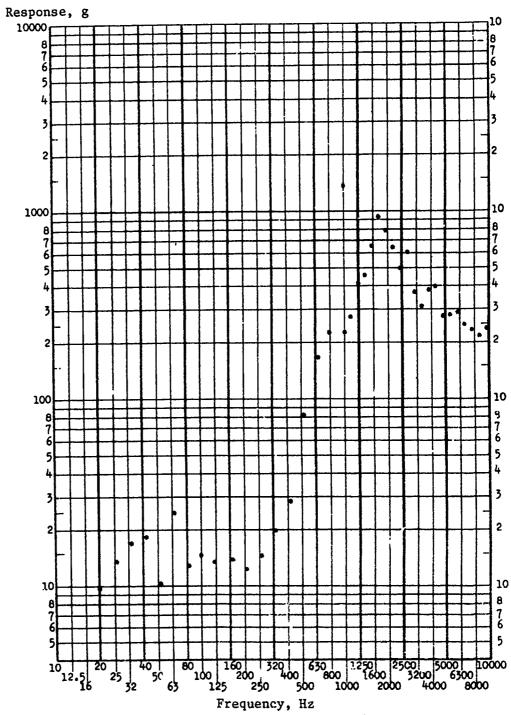
Bench Shock Test - Stage II/III Separation, Run 5 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 5 (cont)



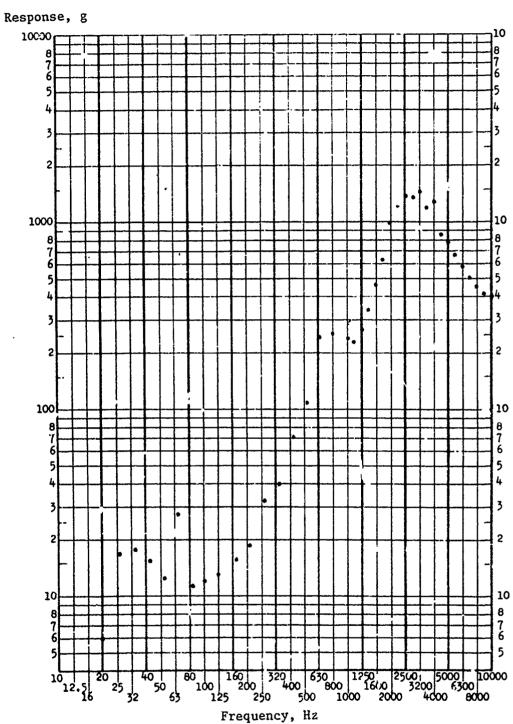
Bench Shock Test - Stage II/III Separation, Run 5 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 5 (cont)



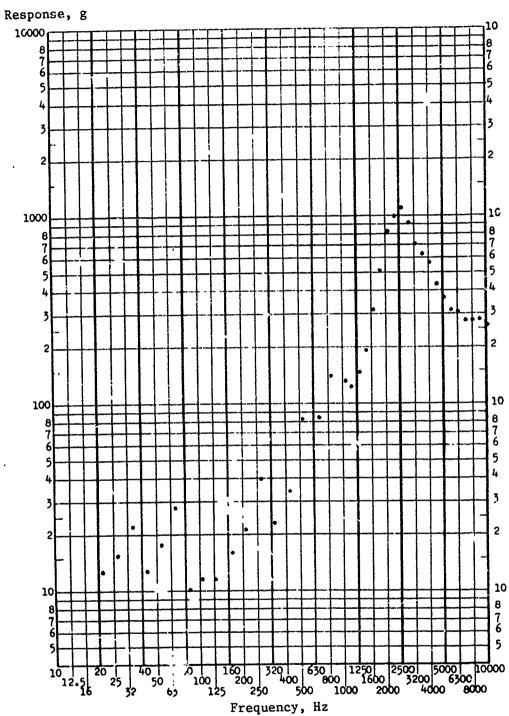
Bench Shock Test - Stage II/III Separation, Run 5 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 5 (cont)



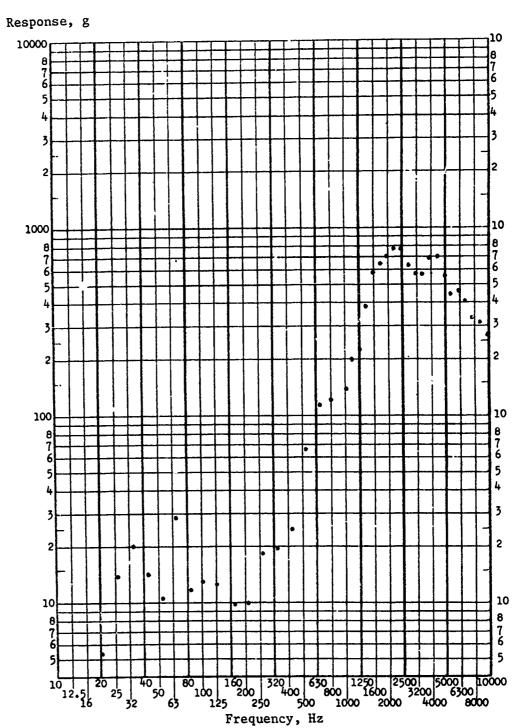
Bench Shock Test - Stage II/III Separation, Run 5 Measurement No. 13 - Longitudinal axis truss tor near longeron attach point

Figure 5 (cont)



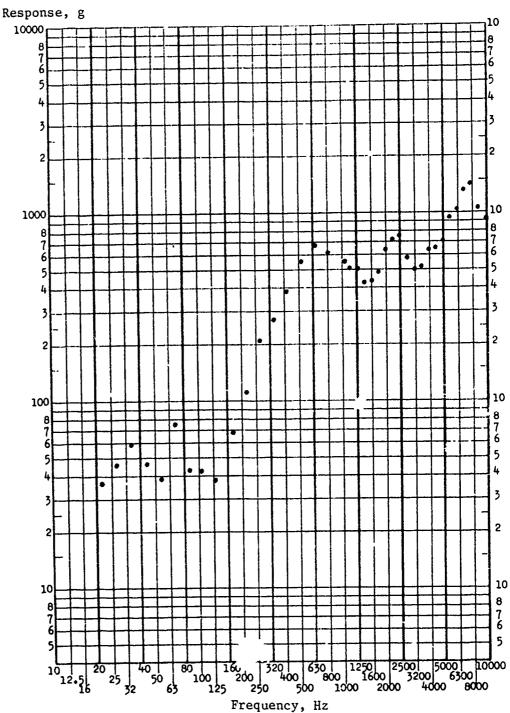
Bench Shock Test - Stage II/III Separation, Run 5 Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 5 (cont)



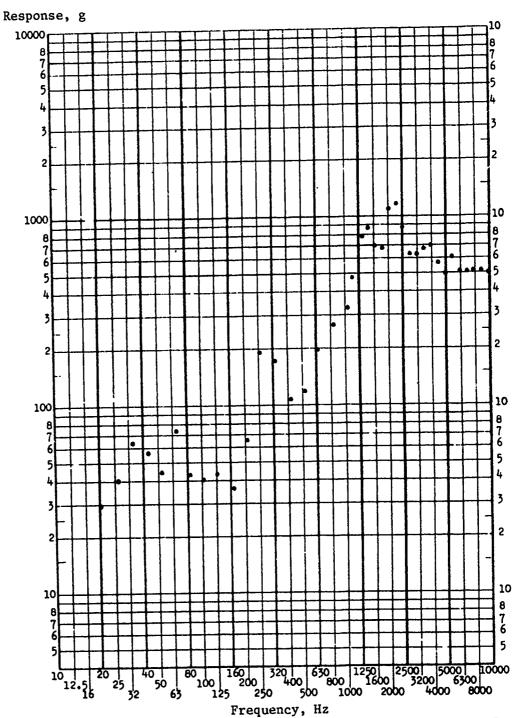
Bench Shock Test - Stage II/III Separation, Run 5 Measurement No. 15 - Lateral axis truss top near longeron attach point

Figure 5 (concl)



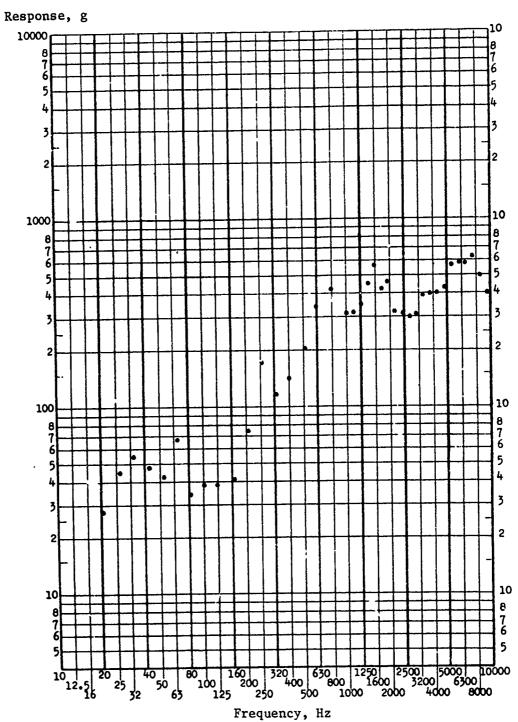
Bench Shock Test - Stage II/III Separation, Run 6 Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 6 Run 6 Shock Response Spectrum



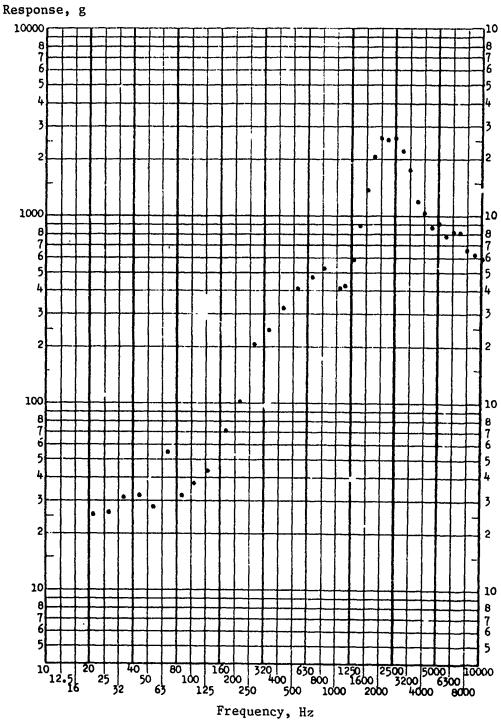
Bench Shock Test - Stage II/III Separation, Run 6 Measurement No. 2 - Tangential axis longeron near station 133

Figure 6 (cont)



Bench Shock Test - Stage II/III Separation, Run 6 Measurement No. 3 - Radial axis longeron near station 133

Figure 6 (cont)



Bench Shock Test - Stage II/III Separation, Run 6 Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 6 (cont)

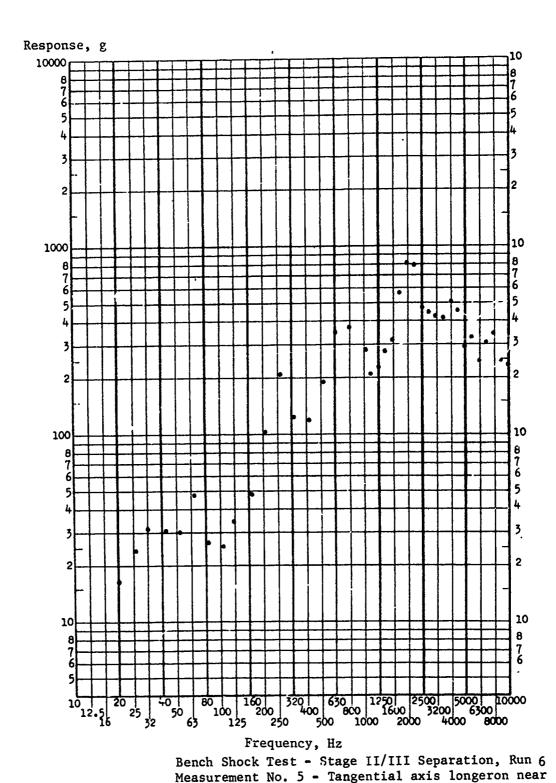
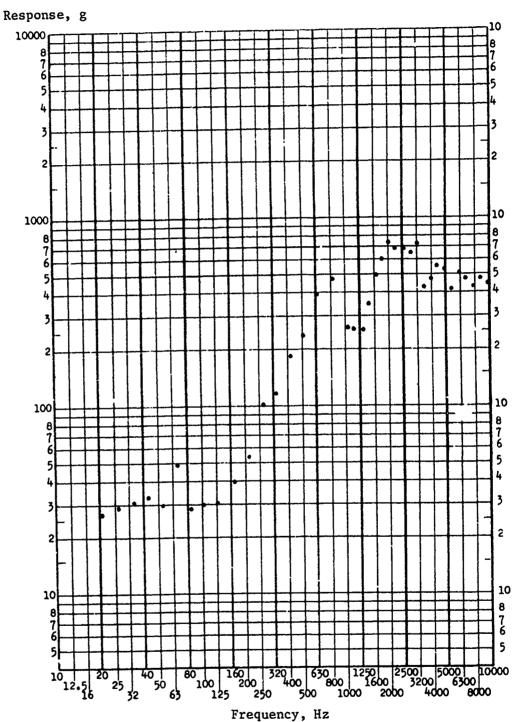


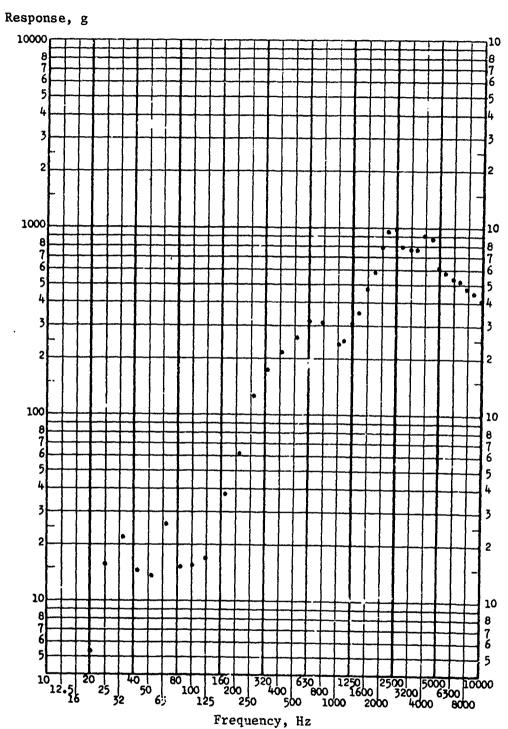
Figure 6 (cont)

station 117



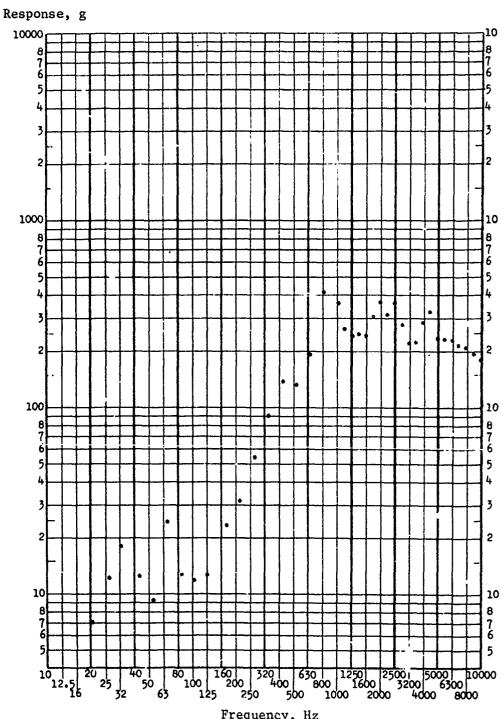
Bench Shock Test - Stage II/III Separation, Run 6
Measurement No. 6 - Radial axis longeron near
station 117

Figure 6 (cont)



Bench Shock Test - Stage II/III Separation, Run 6 Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 6 (cont)

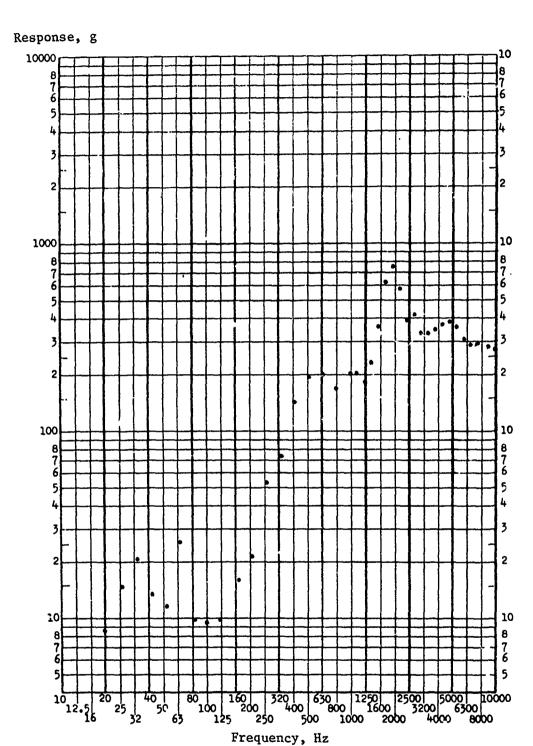


Frequency, Hz

Beach Shock Test - Stage II/III Separation, Run 6

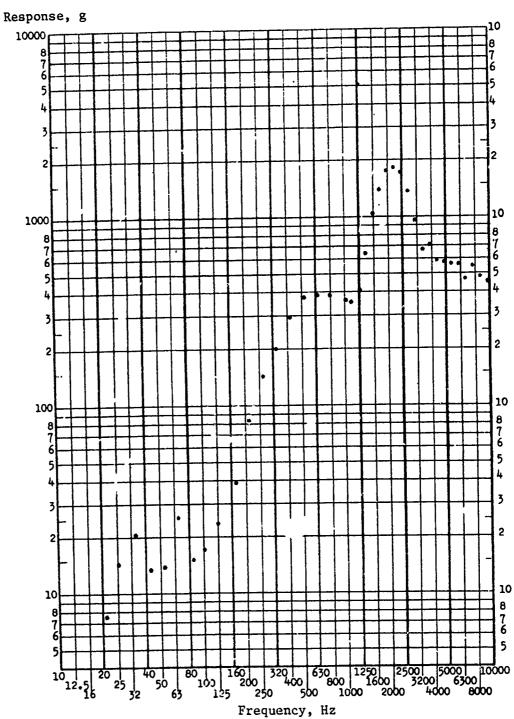
Measurement No. 8 - Tangential axis longeron near station 77

Figure 6 (cont)



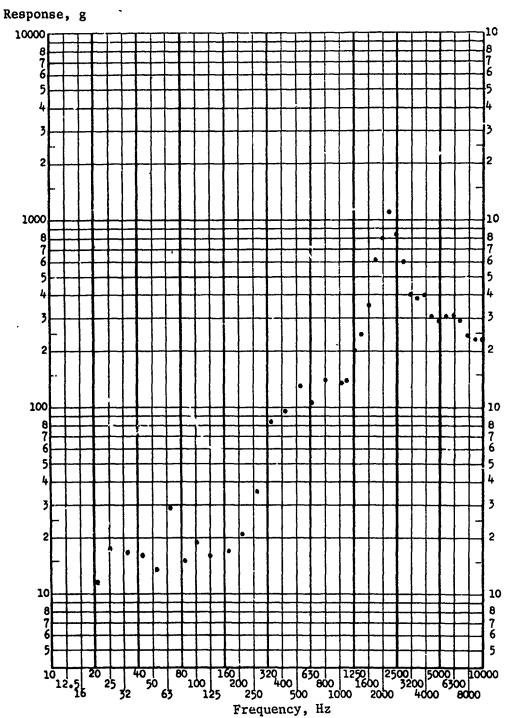
Sench Shock Test - Stage II/III Separation, Run 6 Measurement No. 9 - Radial axis longeron near station 77

Figure 6 (cont)



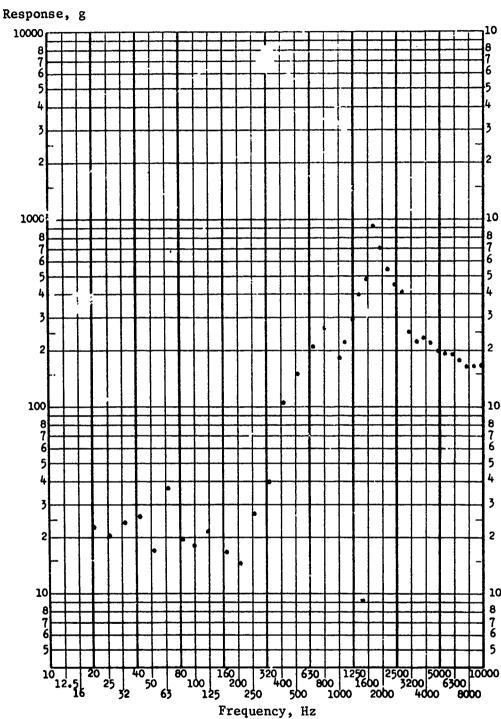
Bench Shock Test - Stage II/III Separation, Run 6 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 6 (cont)



Bench Shock Test - Stage II/III Separation, Run 6 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 6 (cont)



Bench Shock Test - Stage II/III Separation, Run 6 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 6 (cont)

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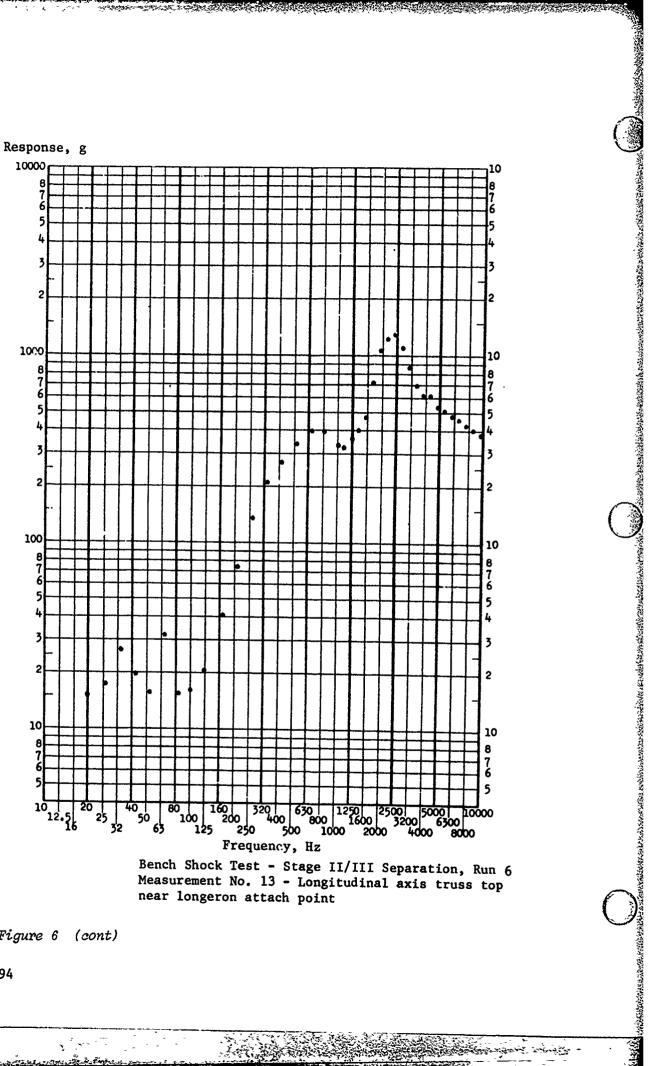
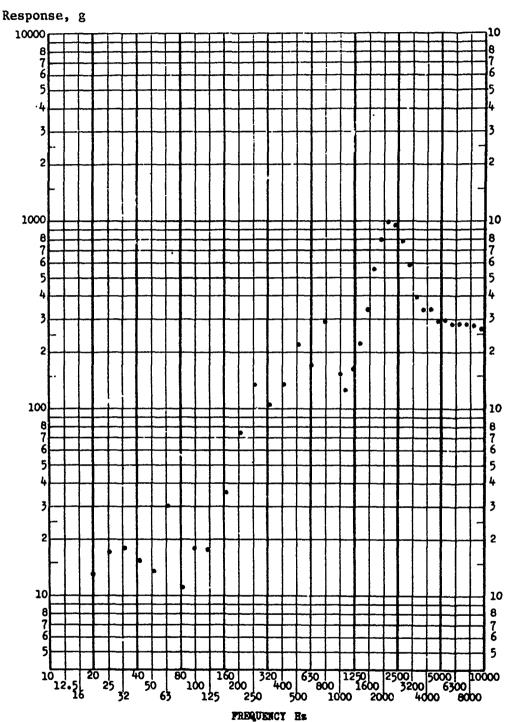


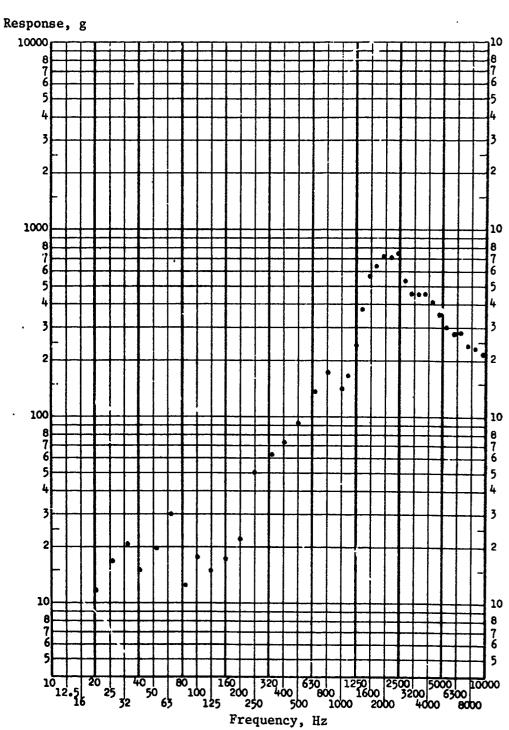
Figure 6 (cont)



Bench Shock Test - Stage II/III Separation, Run 6 Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 6 (cont)

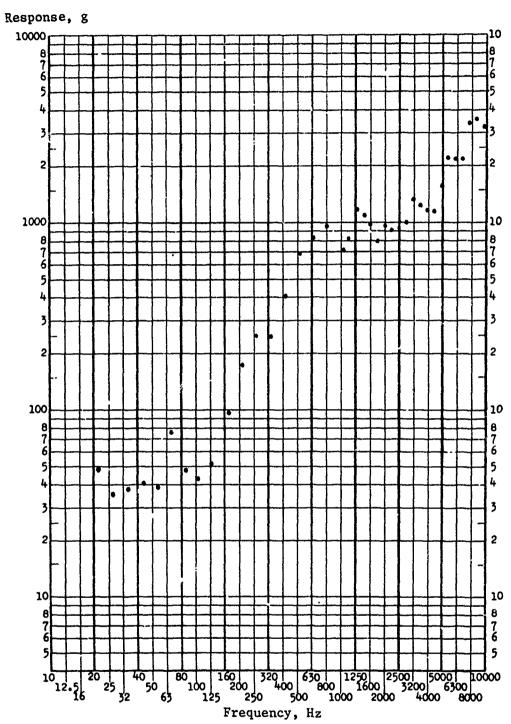
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Bench Shock Test - Stage II/III Separation, Run 6 Measurement No. 15 - Lateral axis truss top near longeron attach point

Lessibernous sees a Company of the contract of

Figure 6 (concl)



Bench Shock Test - Stage II/III Separation, Run 7\_\_\_\_\_ Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 7 Run 7 Shock Response Spectrum

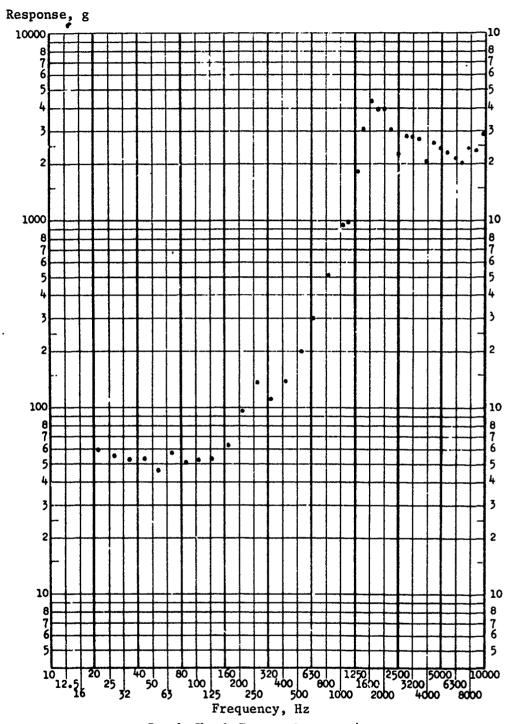
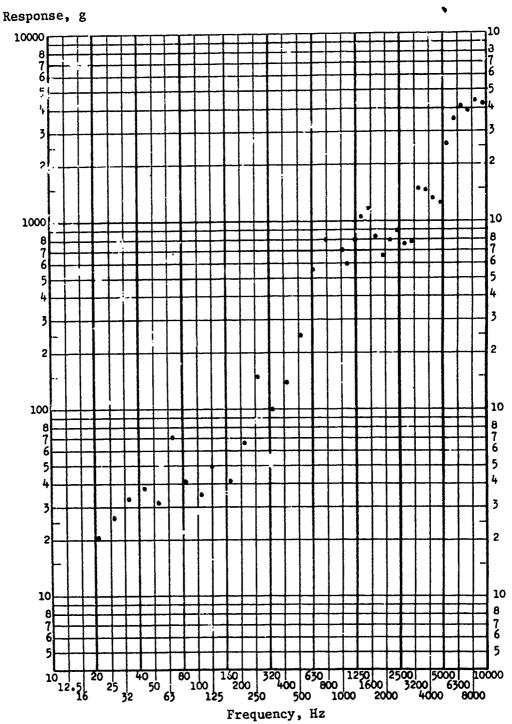


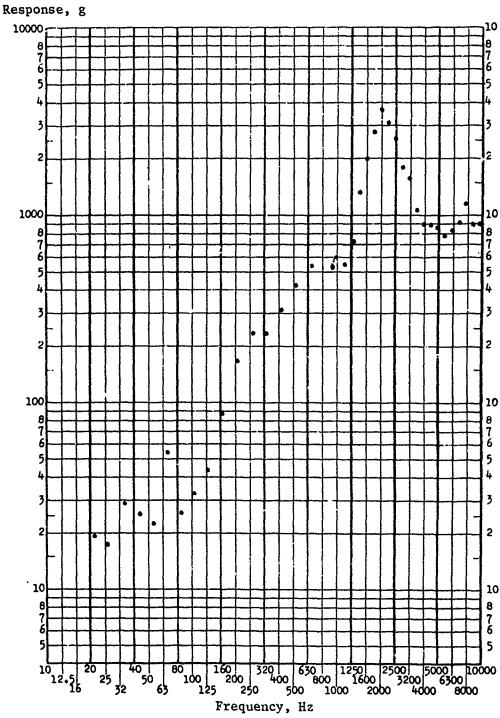
Figure 7 (cont)

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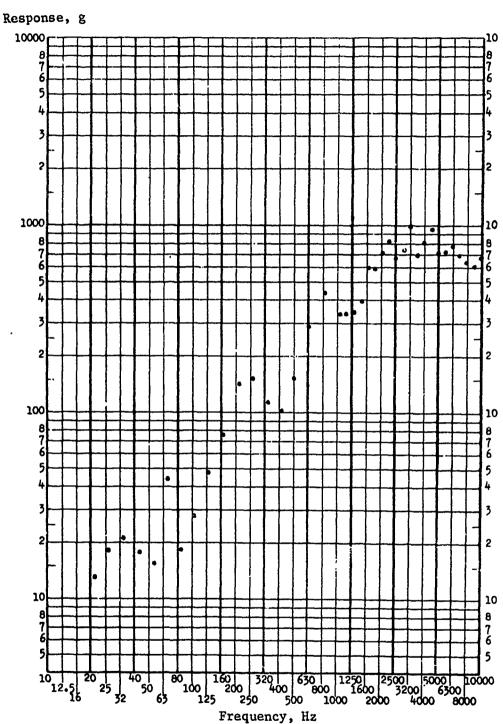
Bench Shock Test - Stage II/III Separation, Run 7 \_\_\_\_ Measurement No. 3 - Radial axis longeron near station 133

Figure 7 (cont)



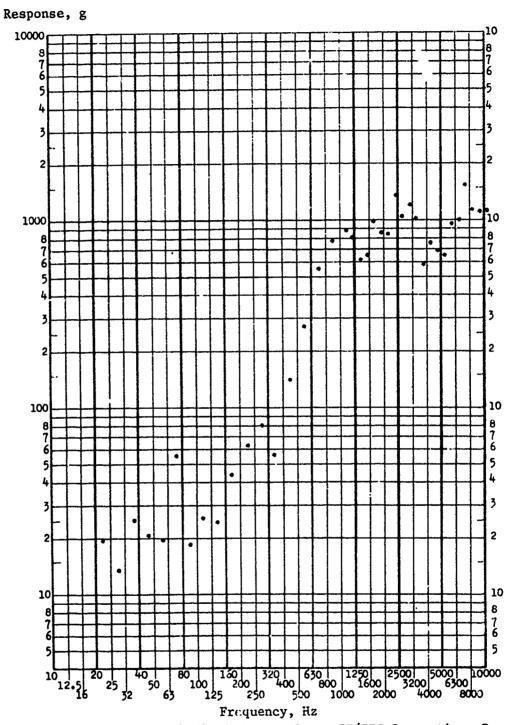
Bench Shock Test - Stage II/III Separation, Run 7\_ Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 7 (cont)



Bench Shock Test - Stage II/III Separation, Run 7 Measurement No. 5 - Tangential axis longeron near station 117

Figure 7 (cont)



Bench Shock Test - Stage II/III Separation, Run 7\_\_\_\_\_ Measurement No. 6 - Radial axis longeron near station 117

Figure 7 (cont)



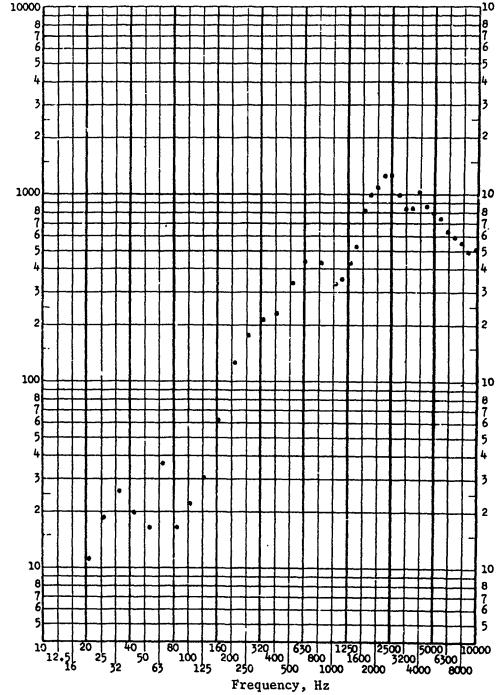
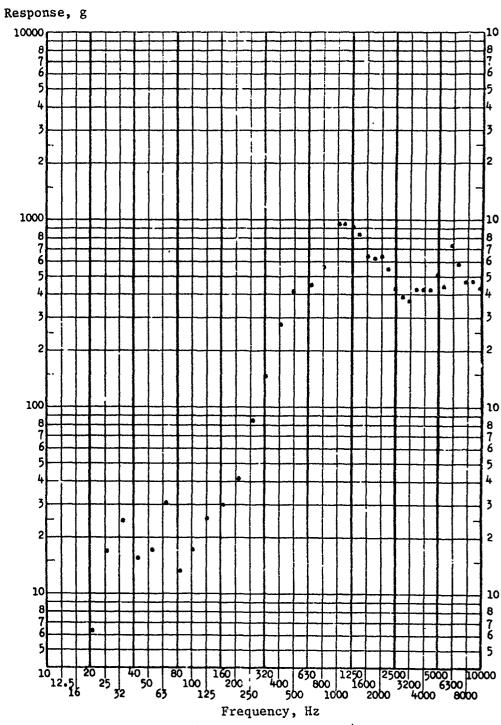
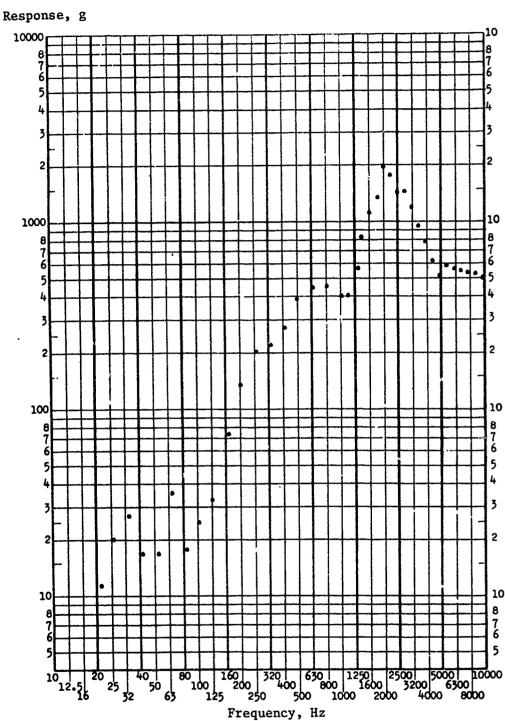


Figure 7 (cont)



Bench Shock Test - Stage II/III Separation, Run 7\_ Measurement No. 8 - Tangential axis longeron near station 77

Figure 7 (cont)



Bench Shock Test - Stage II/III Separation, Run 7\_\_\_ Measurement No. 9 - Radial axis longeron near station 77

Figure 7 (cont)

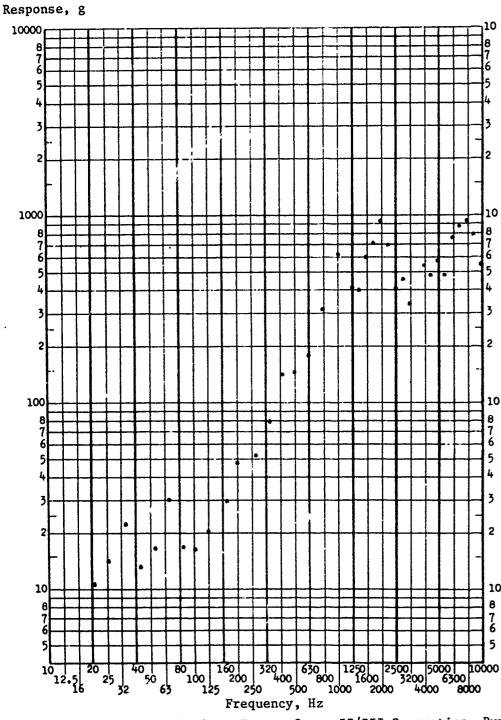
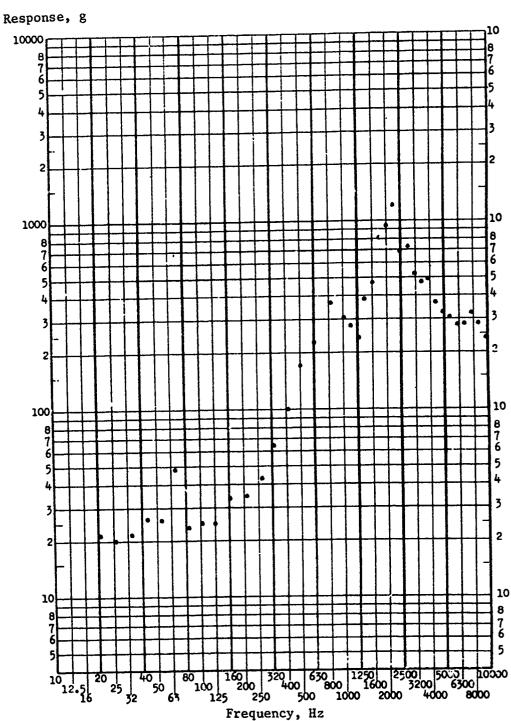


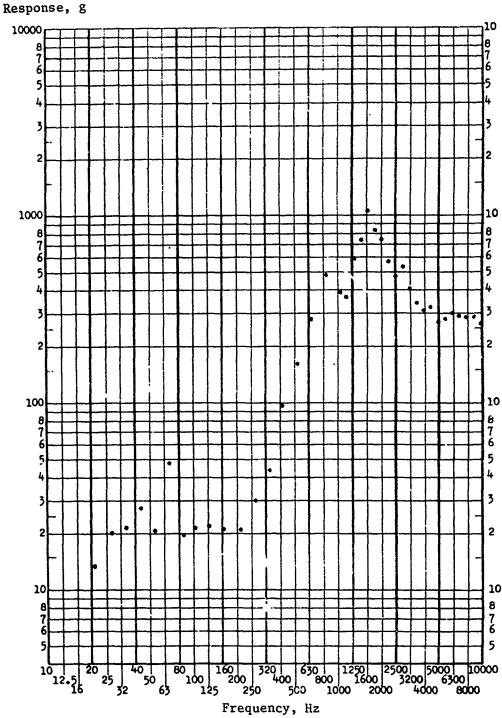
Figure 7 (cont)

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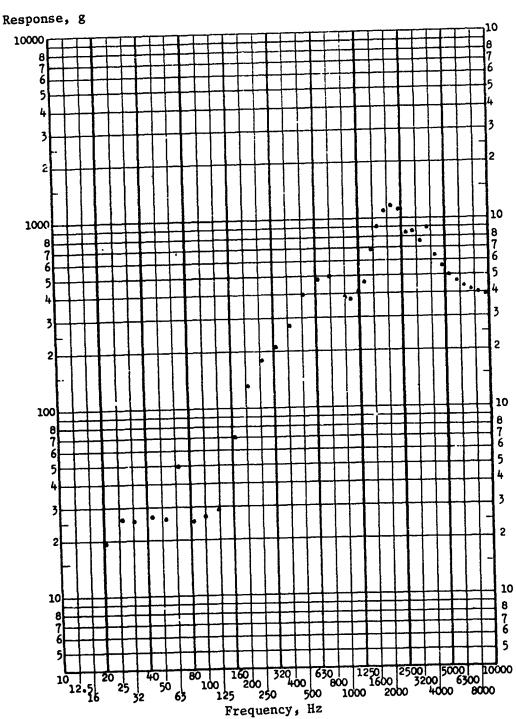


Bench Shock Test - Stage II/III Separation, Run 7 \_\_\_\_\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 7 (cont)

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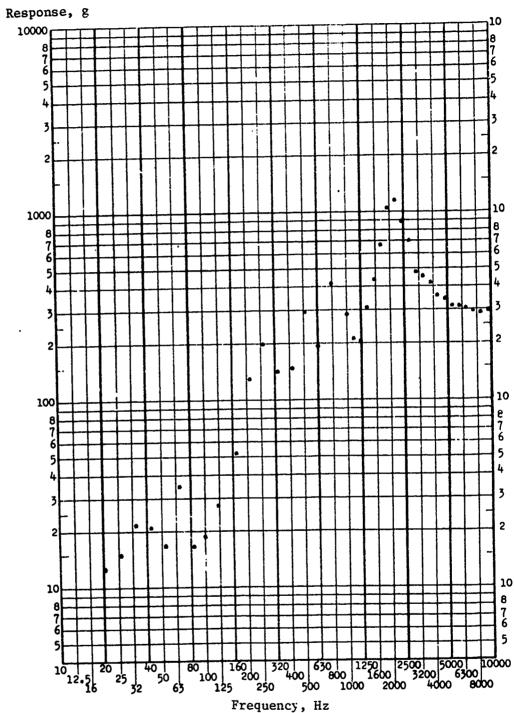
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Bench Shock Test - Stage II/III Separation, Run 7\_\_\_\_\_ Measurement No. 13 - Longitudinal axis truss top near longeron attach point

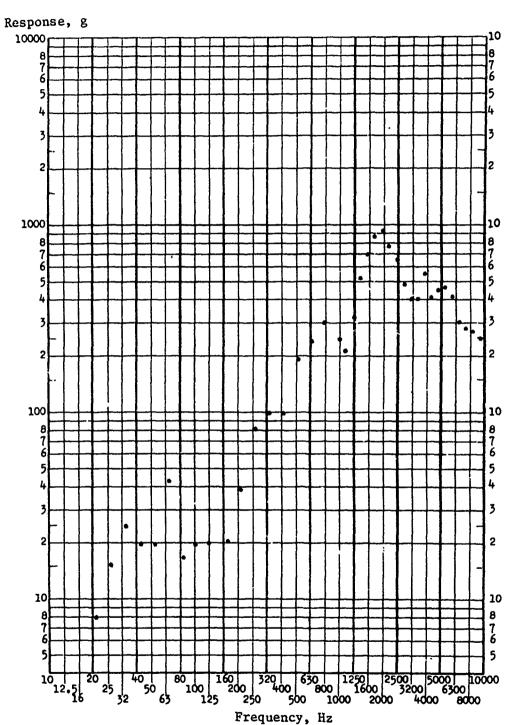
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Figure 7 (cont)



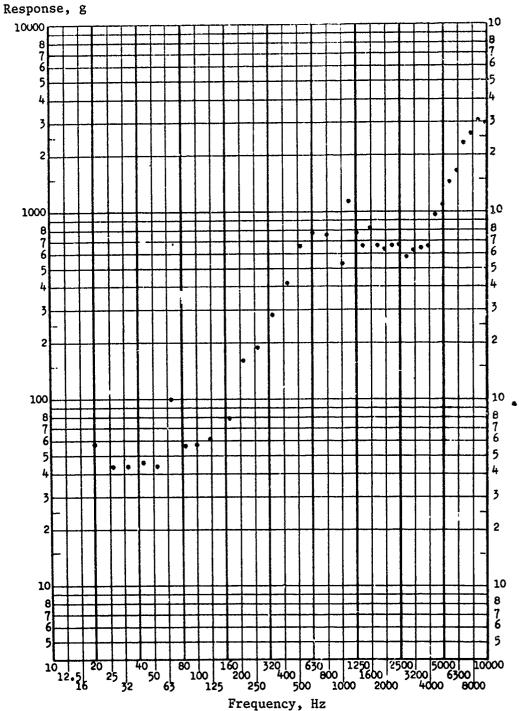
Bench Shock Test - Stage II/III Separation, Run 7 \_\_\_\_ Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 7 (cont)



Bench Shock Test - Stage iI/III Separation, Run 7\_Measurement No. 15 - Lateral axis truss top near longeron attach point

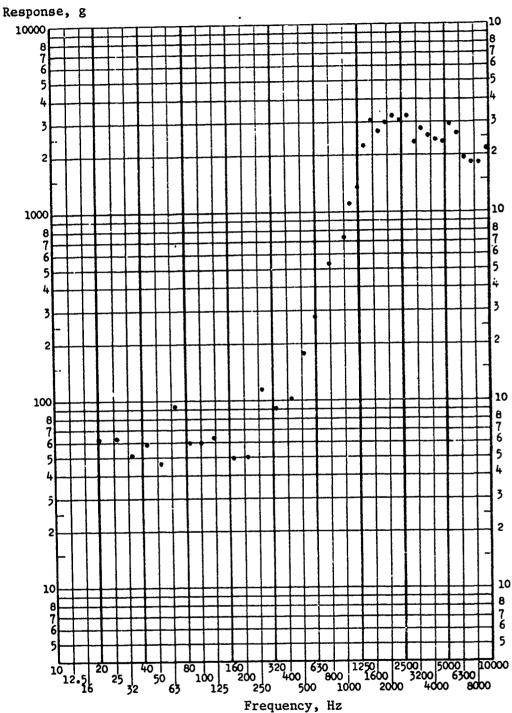
Figure 7 (concl)



Bench Shock Test - Stage II/III Separation, Run 8 Measurement No. 1 - Longitudinal axis longeron near station 133

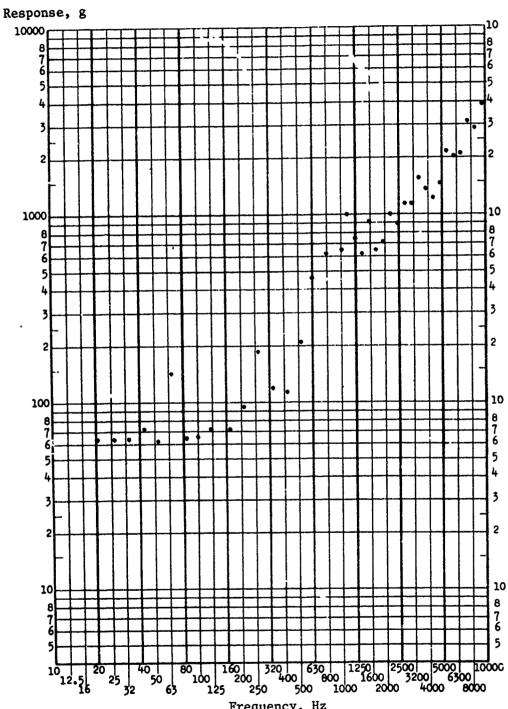
THE STANDARD OF THE PROPERTY O

Figure 8 Run 8 Shock Response Spectrum



Bench Shock Test - Stage II/III Separation, Run 8 Measurement No. 2 - Tangential axis longeron near station 133

Figure 8 (cont)



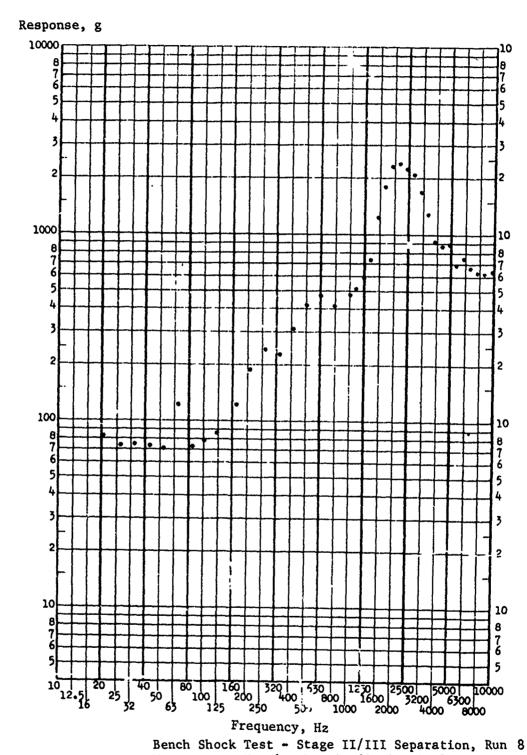
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 8

Measurement No. 3 - Radial axis longeron near

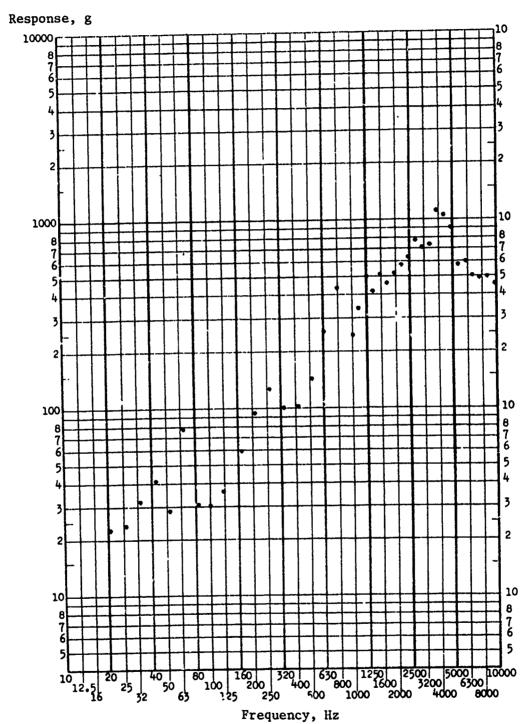
station 133

Figure 8 (cont)



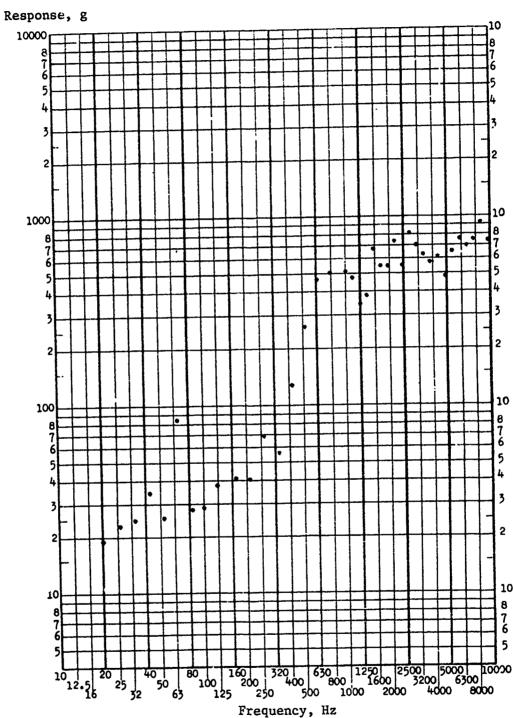
Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 8 (cont)



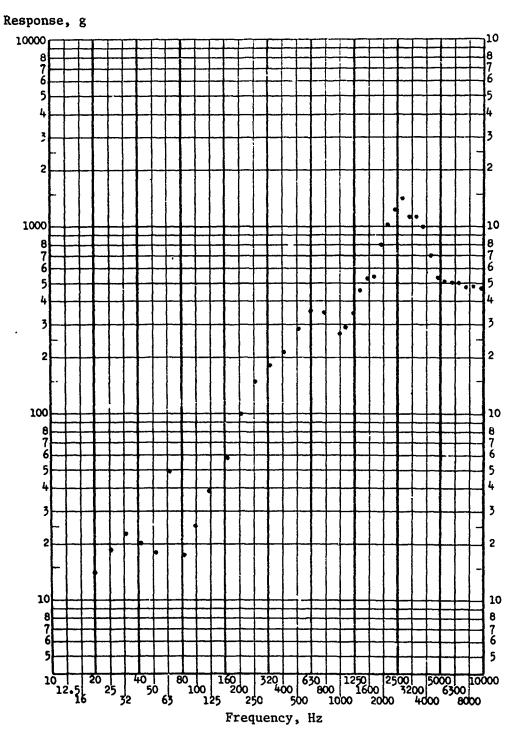
Bench Shock Test - Stage II/III Separation, Run 8 Measurement No. 5 - Tangential axis longeron near station 117

Figure 8 (cont)



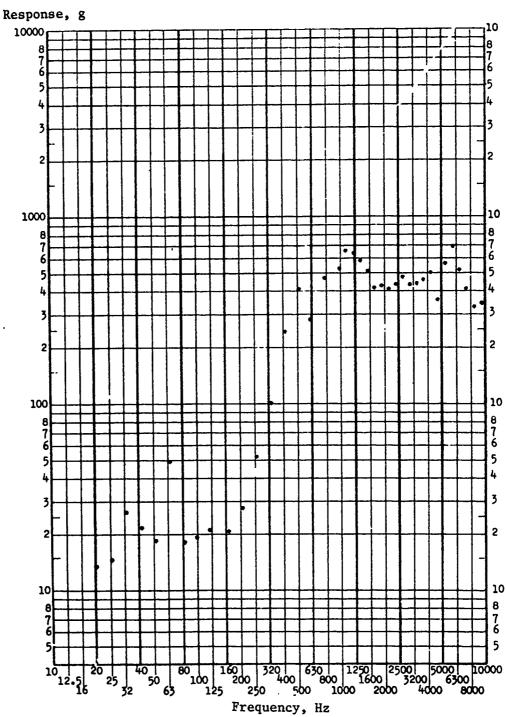
Bench Shock Test - Stage II/III Separation, Run 8
Measurement No. 6 - Radiol axis longeron near
station 117

Figure 8 (cont)



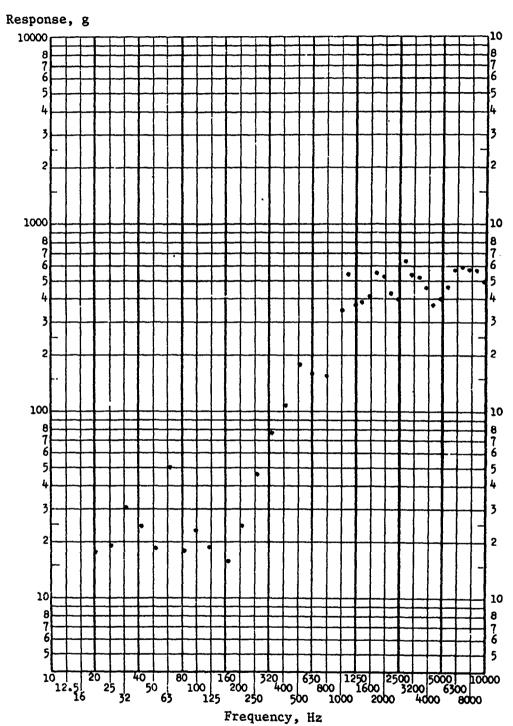
Bench Shock Test - Stage II/III Separation, Run 8 Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 8 (cont)



Bench Shock Test - Stage II/III Separation, Run 8 Measurement No. 8 - Tangential axis longeron near station 77

Figure 8 (cont)

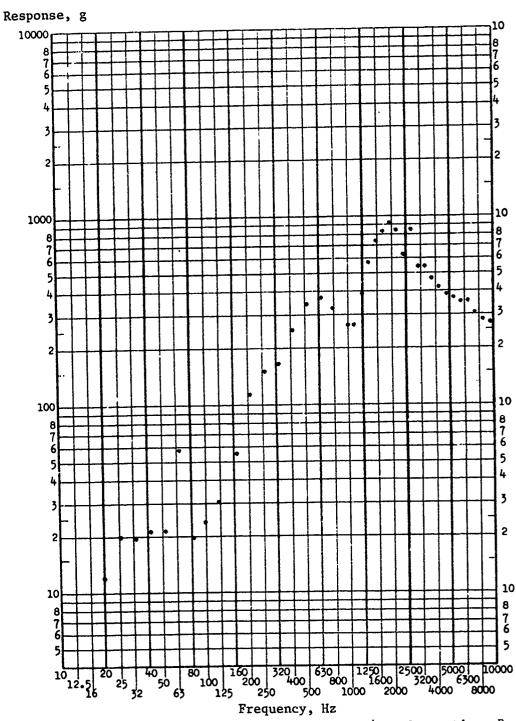


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Bench Shock Test - Stage II/III Separation, Run 8 Measurement No. 9 - Radial axis longeron near station 77

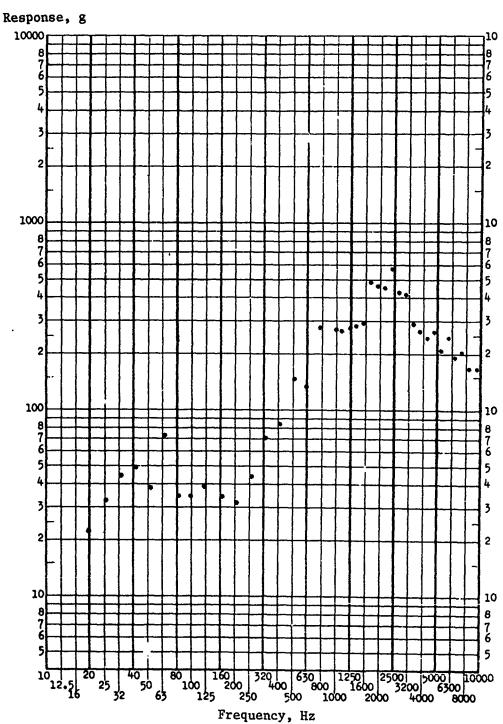
Figure 8 (cont)



Bench Shock Test - Stage II/III Separation, Run 8 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 8 (cont)

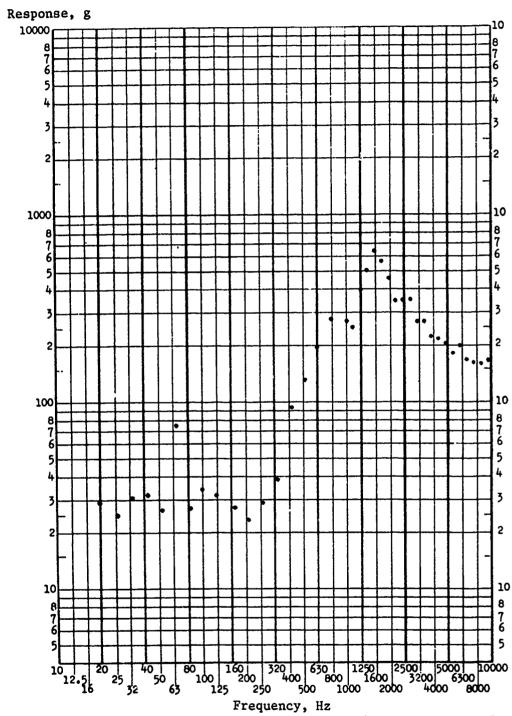
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Bench Shock Test - Stage II/III Separation, Run 8 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

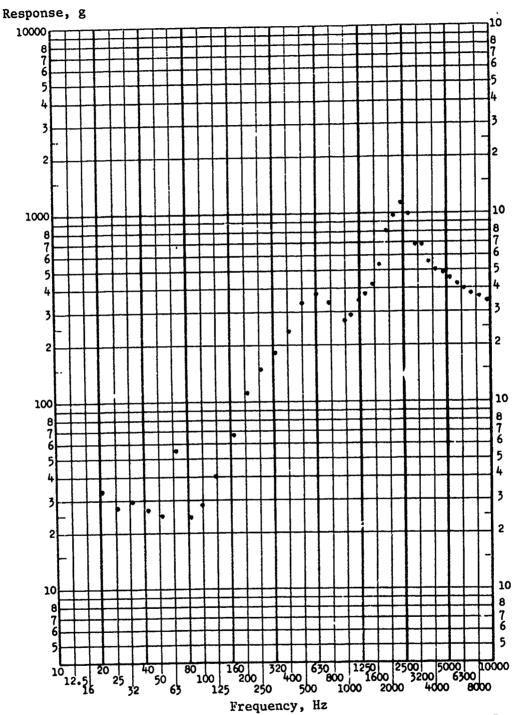
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Figure 8 (cont)



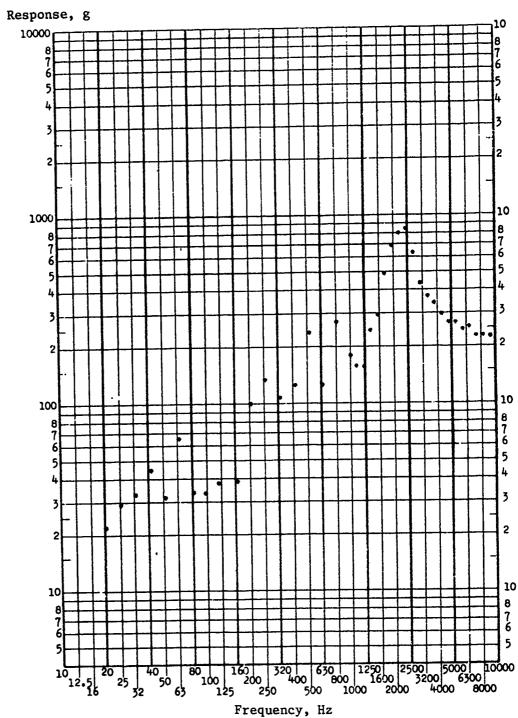
Bench Shock Test - Stage II/III Separation, Run 8 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 8 (cont)



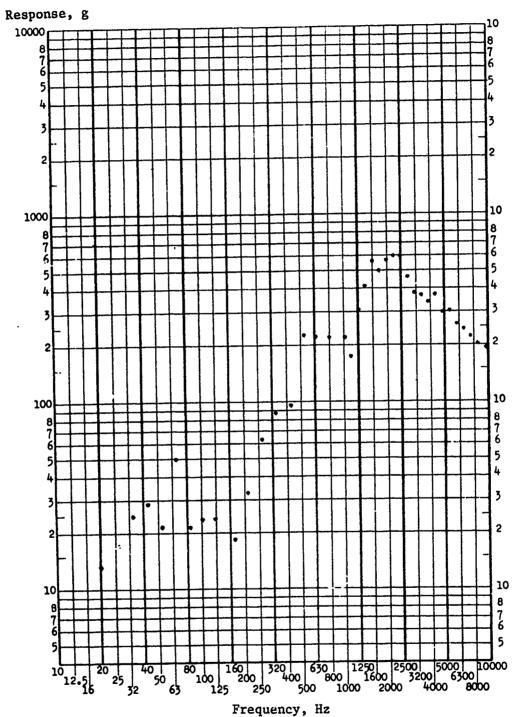
Bench Shock Test - Stage II/III Separation, Run 8 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 8 (cont)



Bench Shock Test - Stage II/III Separation, Run 8 Measurement No. 14 - Lateral axis truss top near longeron attach point

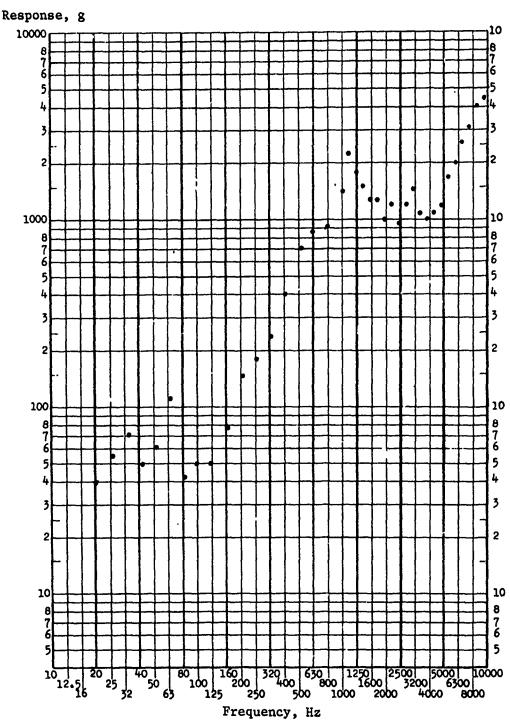
Figure 8 (cont)



Bench Shock Test - Stage II/III Separation, Run 8
Measurement No. 15 - Lateral axis truss top near
longeron attach point

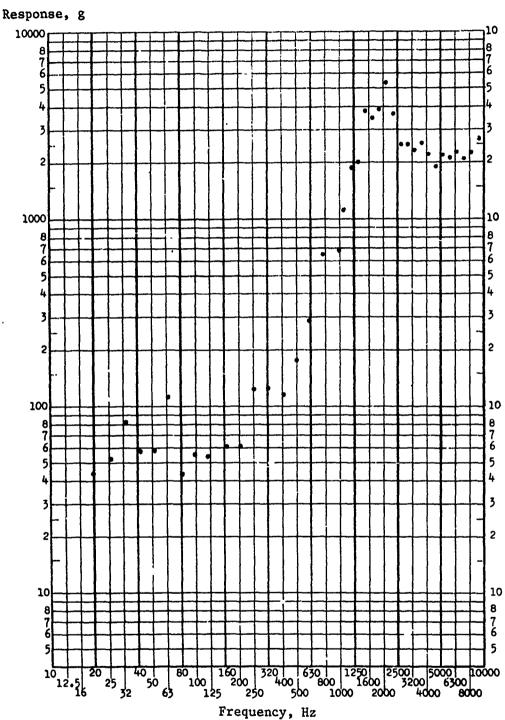
Figure 8 (concl)

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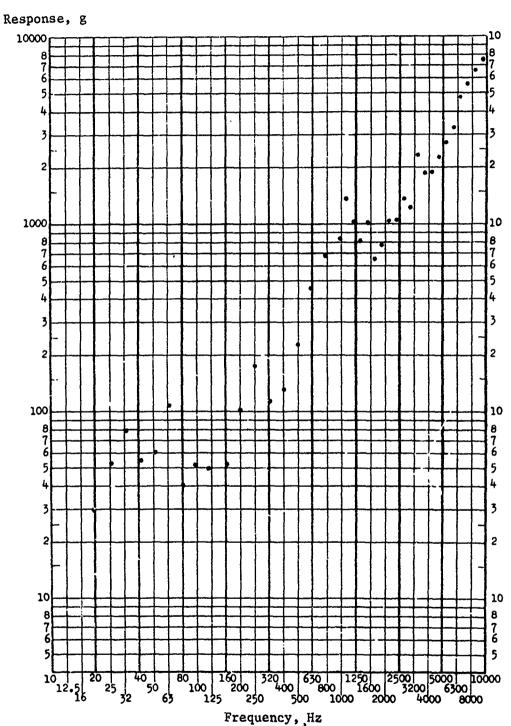
Bench Shock Test - Stage II/III Separation, Run 9 Measurement No. 1 - Longitudinal axis longeron near station 133 oko kiko skarate ostari ostari propinsi propinsi propinsi propinsi propinsi propinsi propinsi propinsi propinsi

Figure 9 Run 9 Shock Response Spectrum



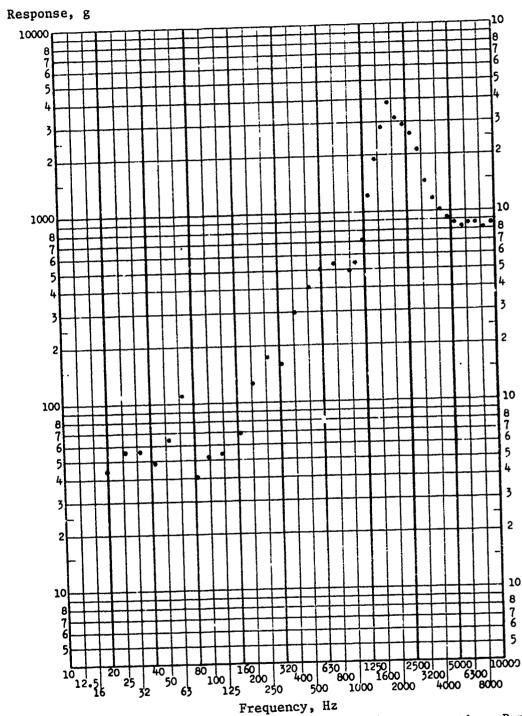
Bench Shock Test - Stage II/III Separation, Run 9 Measurement No. 2 - Tangential axis longeron near station 133

Figure 9 (cont)



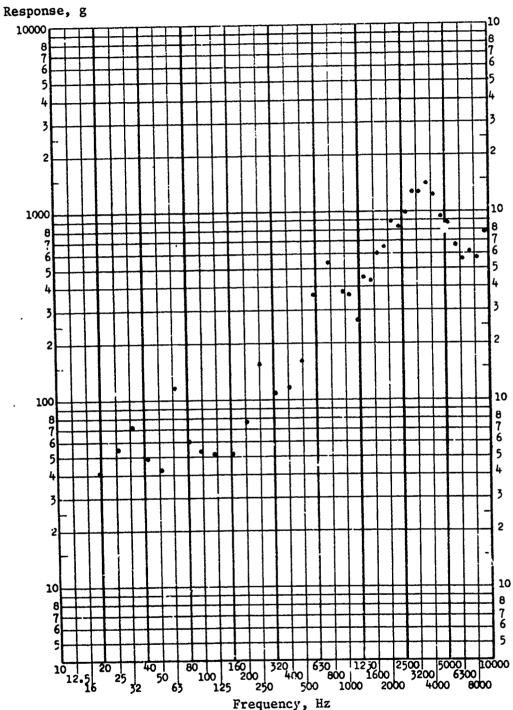
Bench Shock Test - Stage II/III Separation, Run 9 Measurement No. 3 - Radial axis longeron near station 133

Figure 9 (cont)



Bench Shock Test - Stage II/III Separation, Run 9
Measurement No. 4 - Longitudinal axis longeron near
station 117

Figure 9 (cont)

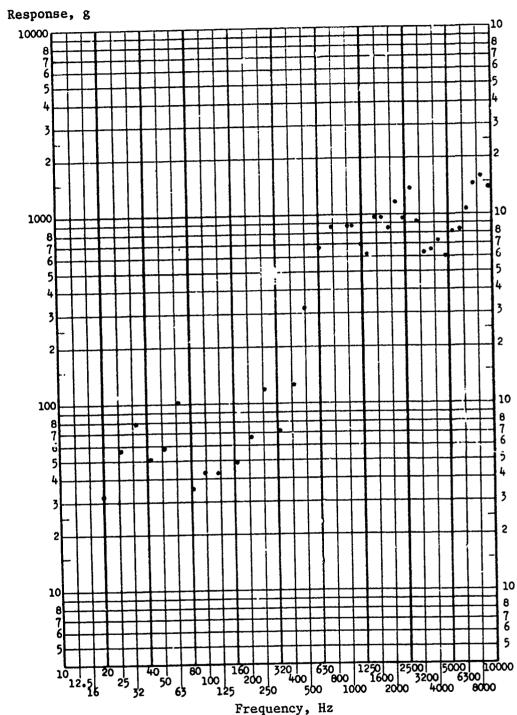


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 9

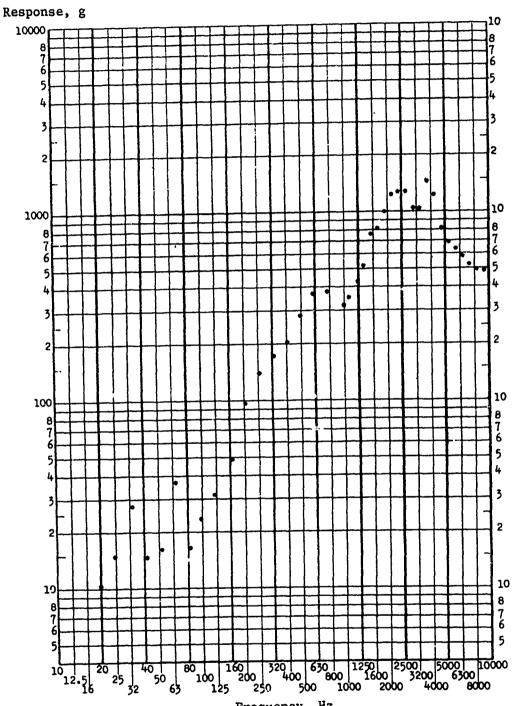
Measurement No. 5 - Tangential axis longeron near
station 117

Figure 9 (cont)



Bench Shock Test - Stage II/III Separation, Run 9
Measurement No. 6 - Radial axis longeron near
station 117

Figure 9 (cont)



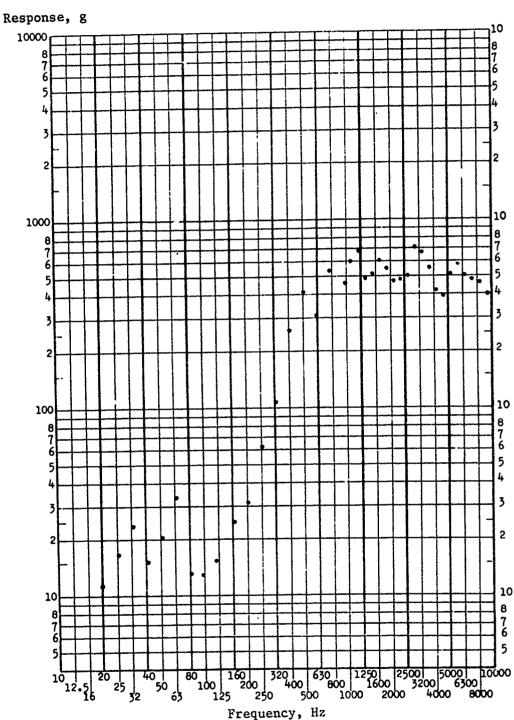
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 9

Measurement No. 7 - Longitudinal axis longeron near station 77

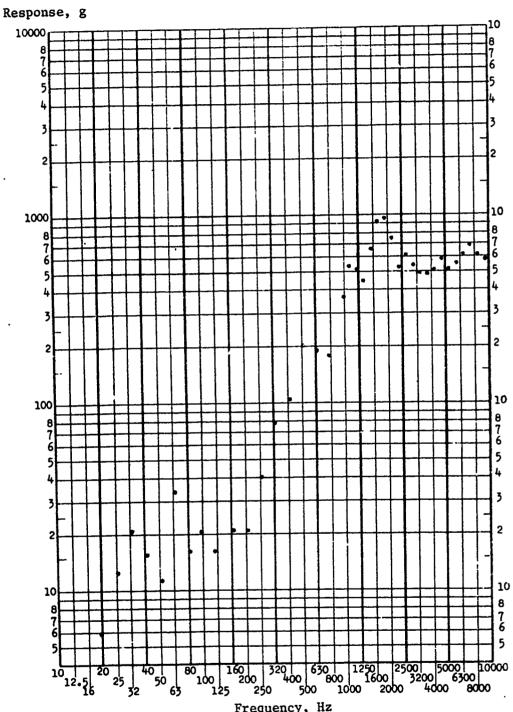
instrumenten and determinated as temporal and a second and

Figure 9 (cont)



Bench Shock Test - Stage II/III Separation, Run 9 Measurement No. 8 - Tangential axis longeron near station 77

Figure 9 (cont)



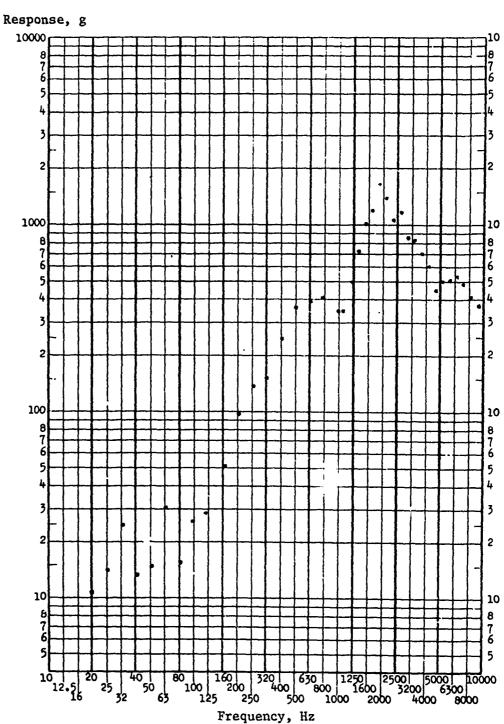
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 9

Measurement No. 9 - Radial axis longeron near

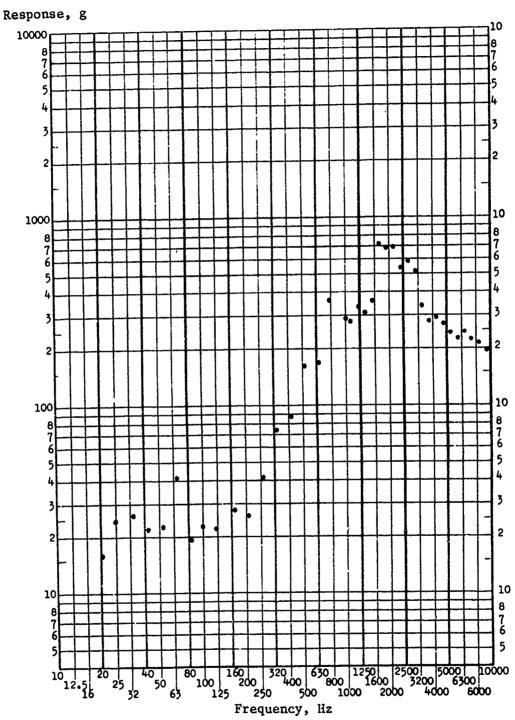
station 77

Figure 9 (cont)



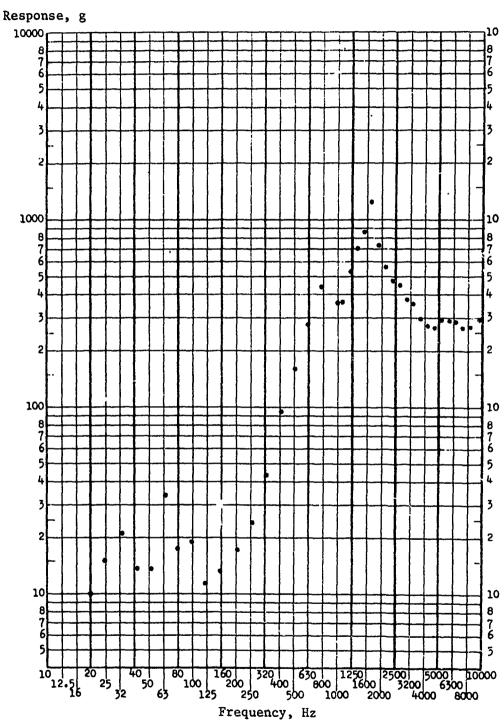
Bench Shock Test - Stage II/III Separation, Run 9
Measurement No. 10 - Longitudinal axis truss bottom
near station 114 attach point

Figure 9 (cont)



Bench Shock Test - Stage II/III Separation, Run 9
Measurement No. 11 - Lateral axis truss bottom near
station 114 attach point

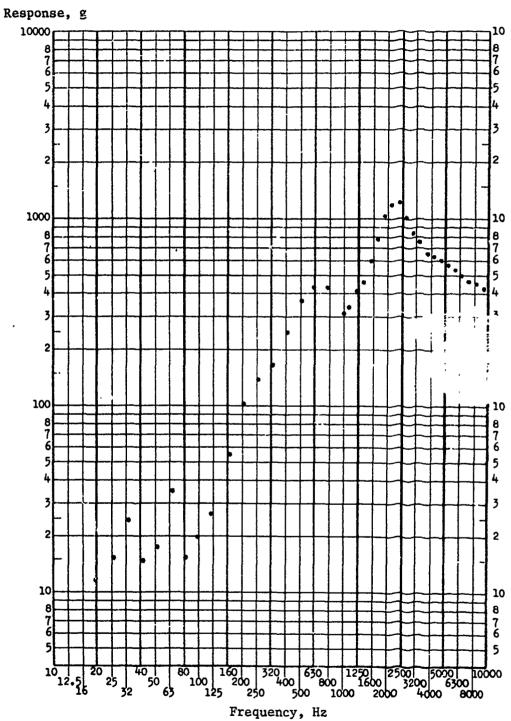
Figure 3 (cont)



Bench Shock Test - Stage II/III Separation, Run 9 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

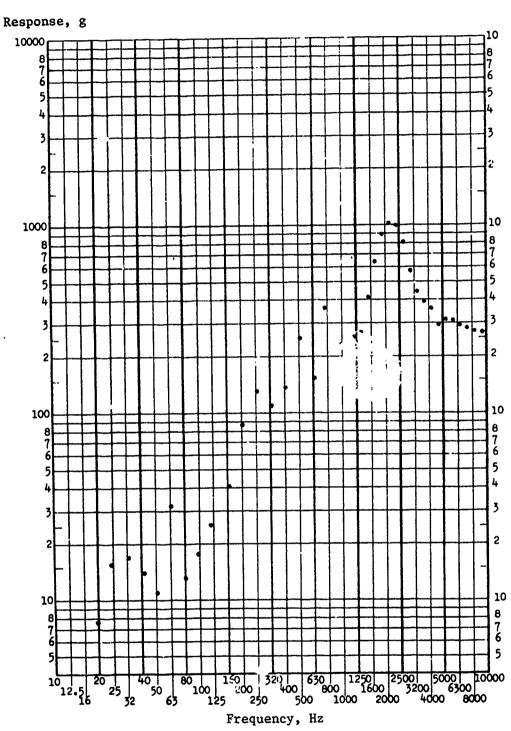
Figure 9 (cont)

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Bench Shock Test - Stage II/III Separation, Run 9 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

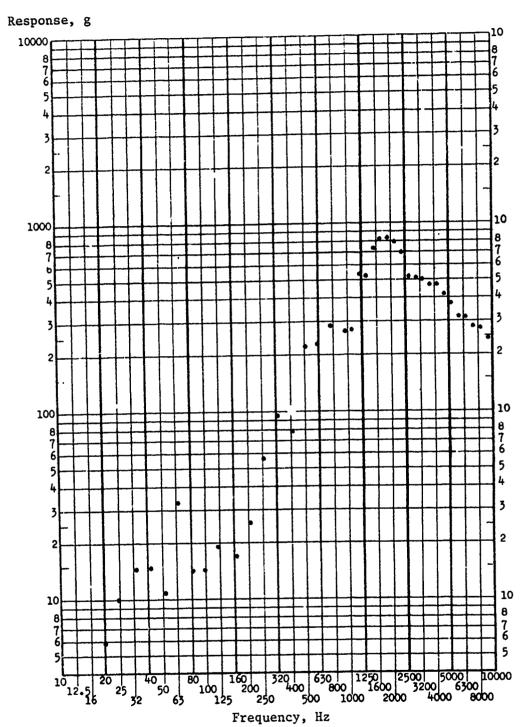
Figure 9 (cont)



Bench Shock Test - Stage II/III Separation, Run 9 Measurement No. 14 - Lateral axis truss top near longeron attach point

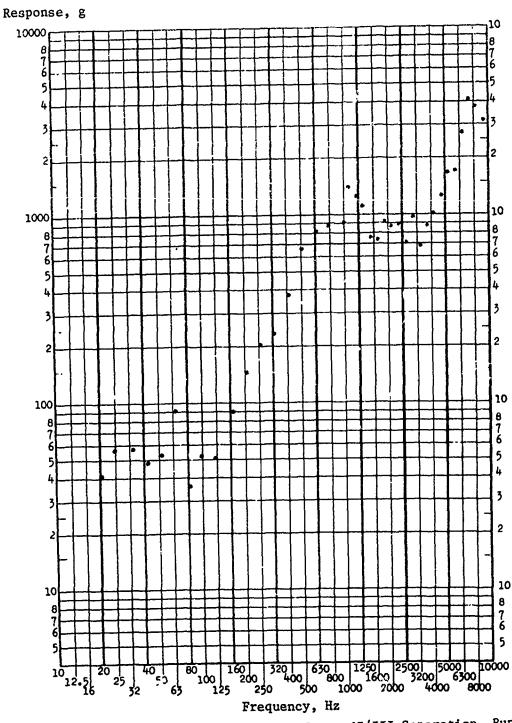
Figure 9 (cont)

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Bench Shock Test - Stage II/III Separation, Run 9 Measurement No. 15 - Lateral axis truss top near longeron attach point

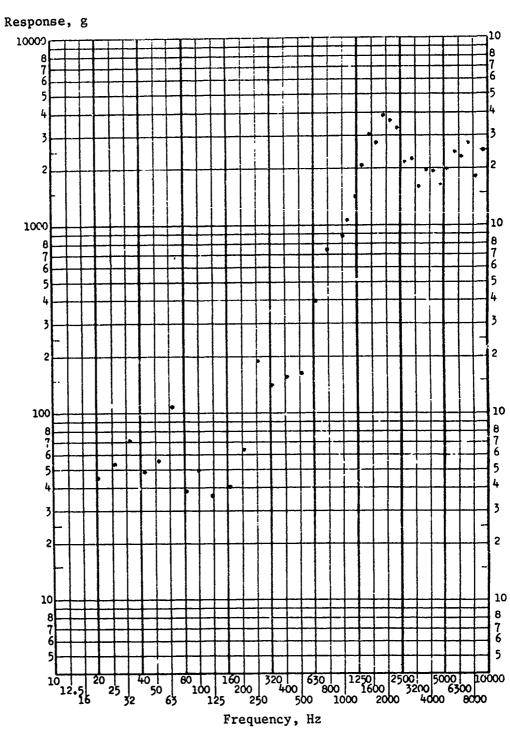
Figure 9 (concl)



Fench Shock Test - Stage II/III Separation, Run 10\_\_\_ Measurement No. 1 - Longitudinal axis longeron near station 133

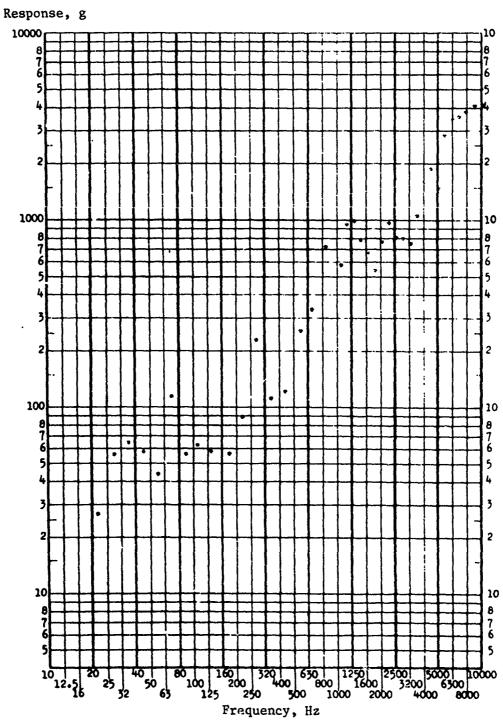
THE RESIDENCE OF THE PARTY OF T

Figure 10 Run 10 Shock Response Spectrum



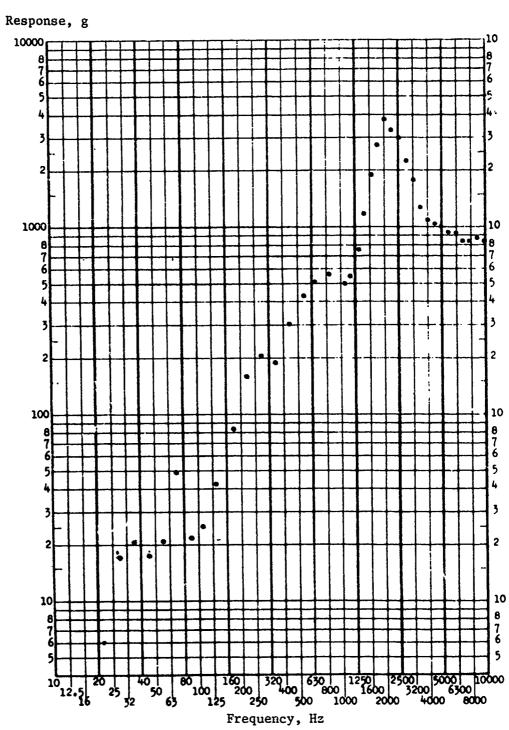
Bench Shock Test - Stage II/III Separation, Run 10\_\_\_ Measurement No. 2 - Tangential axis longeron near station 133

Figure 10 (cont)

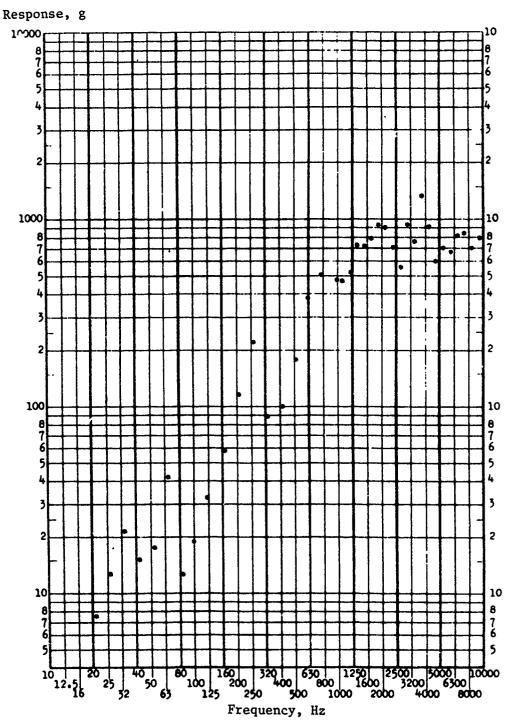


Bench Shock Test - Stage II/III Separation, Run 10\_\_\_\_ Measurement No. 3 - Radial axis longeron near station 133

Figure 10 (cont)

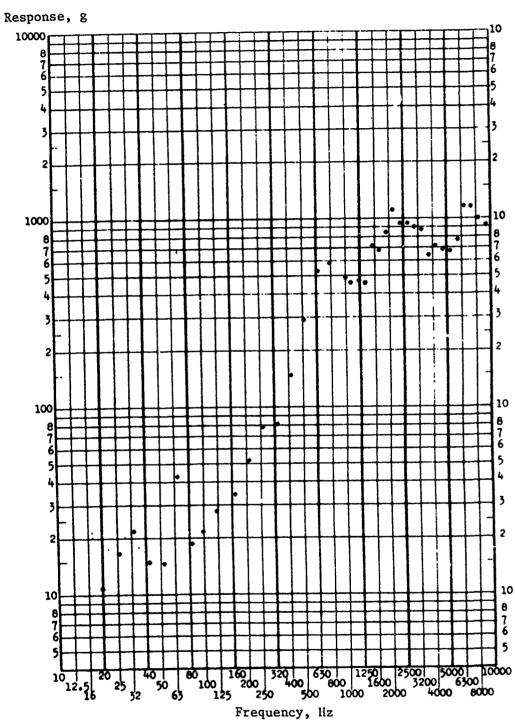


Bench Shock Test - Stage II/III Separation, Run 10\_ Measurement No. 4 - Longitudinal axis longeron near station 117



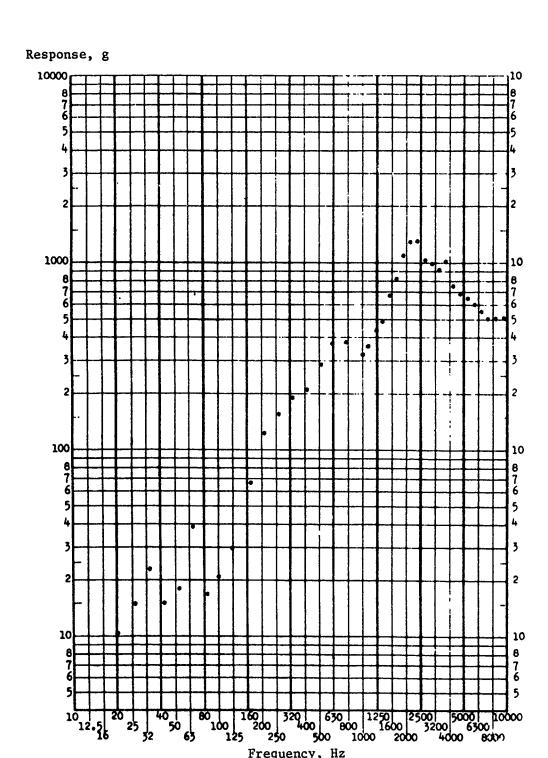
Bench Shock Test - Stage II/III Separation, Run 10\_\_\_ Measurement No. 5 - Tangential axis longeron near station 117

Figure 10 (cont)



Bench Shock Test - Stage II/III Separation, Run 10\_\_\_\_ Measurement No. 6 - Radial axis longeron near station 117

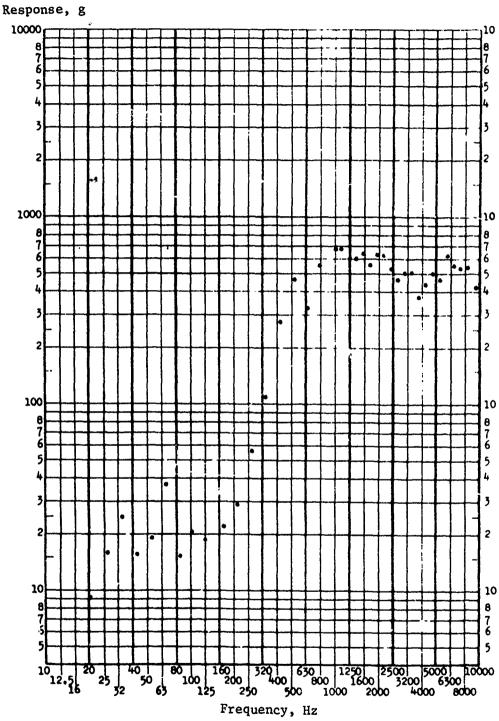
Figure 10 (cont)



Bench Shock Test - Stage II/III Separation, Run 10\_ Measurement No. 7 - Longitudinal axis longeron near station 77

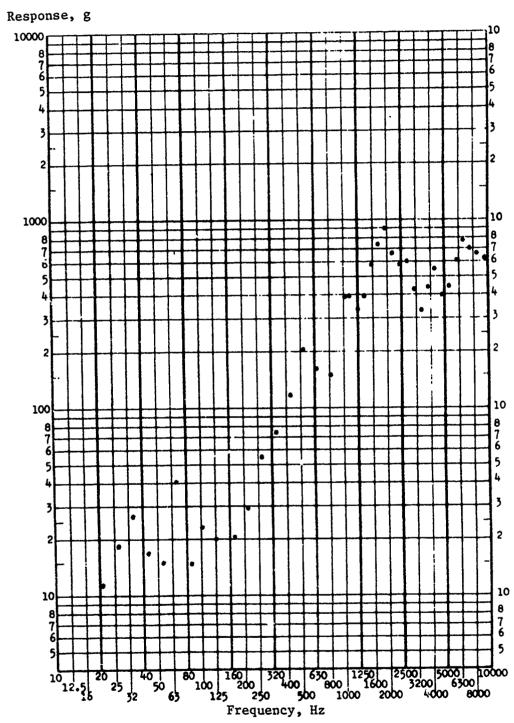
Frequency, Hz

Figure 10 (cont)



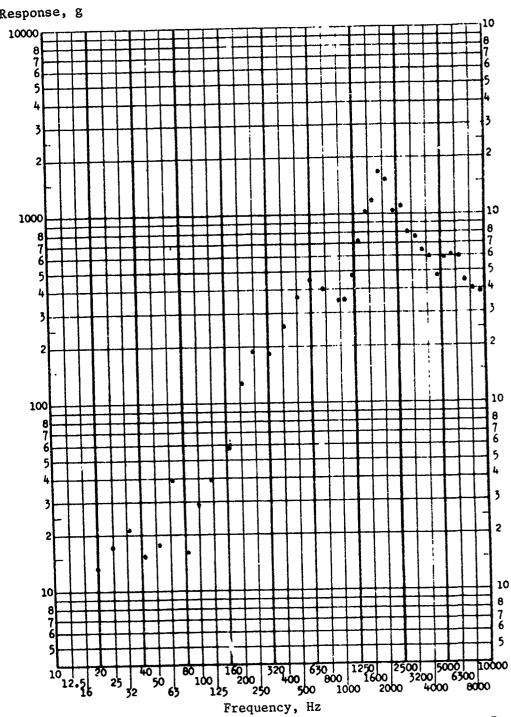
Bench Shock Test - Stage II/III Separation, Run 10\_\_\_ Measurement No. 8 - Tangential axis longeron near station 77

Figure 10 (cont)



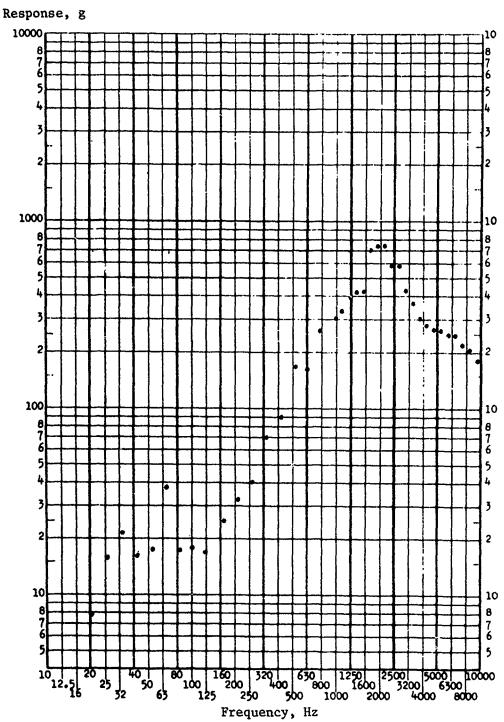
Bench Shock Test - Stage II/III Separation, Run 10\_\_\_ Measurement No. 9 - Radial axis longeron near station 77

Figure 10 (cont)



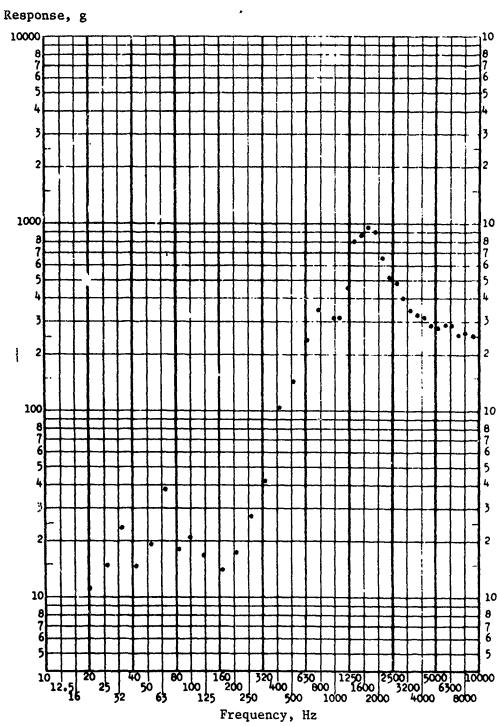
Bench Shock Test - Stage II/III Separation, Run 10\_\_ Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 10 (cont)



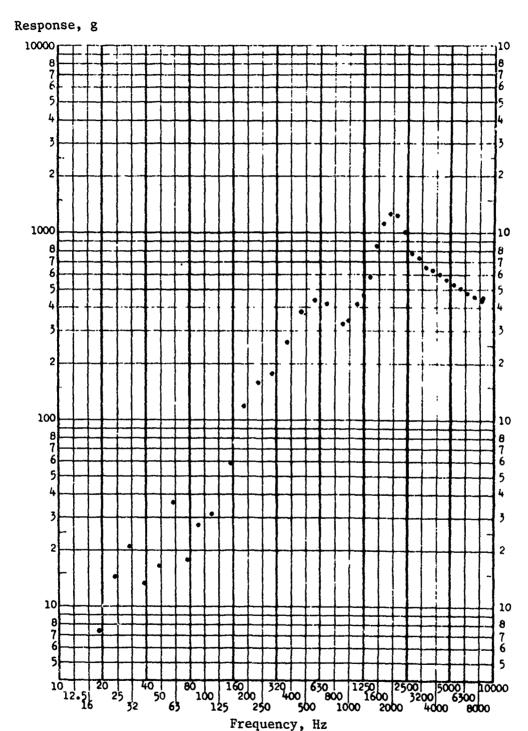
Bench Shock Test - Stage II/III Separation, Run 10\_\_\_\_ Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 10 (cont)



Bench Shock Test - Stage II/III Separation, Run 10\_\_\_\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

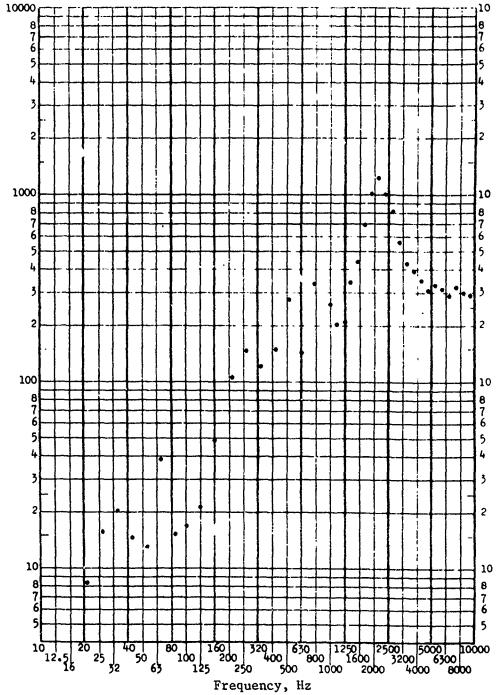
Figure 10 (cont)



Bench Shock Test - Stage II/III Separation, Run 10\_\_\_ Measurement No. 13 - Longitudinal axis truss top near longeron attach point

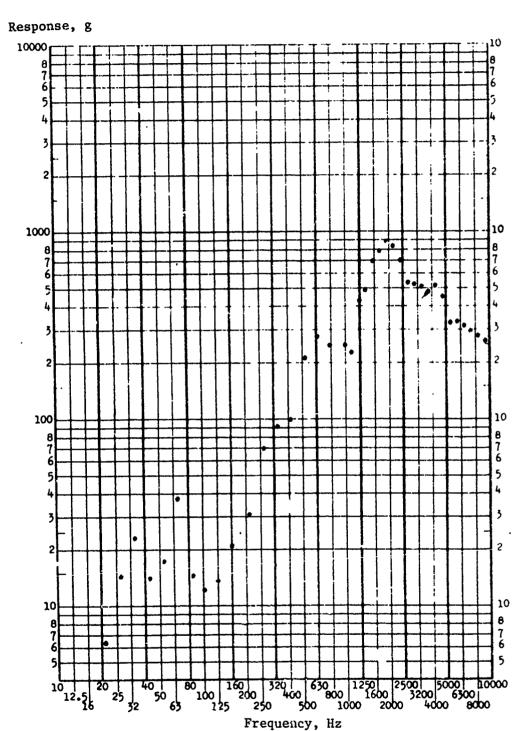
Figure 10 (cont)





Bench Shock Test - Stage II/III Separation, Run 10\_ Measurement No. 14 - Lateral axis truss top near longeron attach point

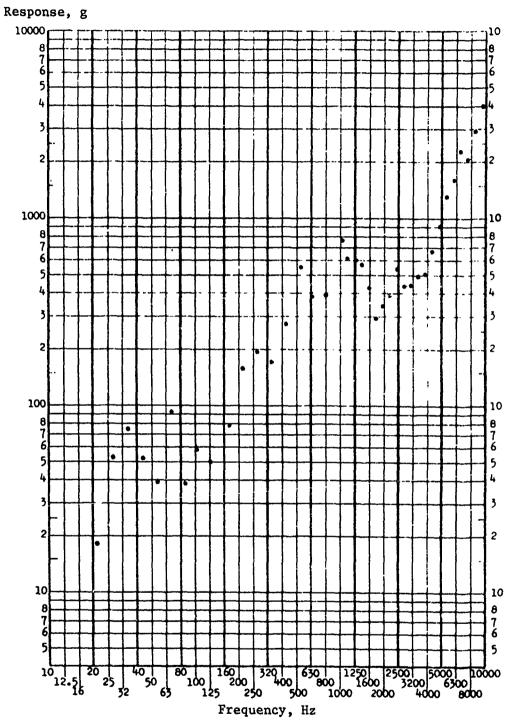
Figure 10 (cont)



Bench Shock Test - Stage II/III Separation, Run 10\_\_\_ Measurement No. 15 - Lateral axis truss top near longeron attach point

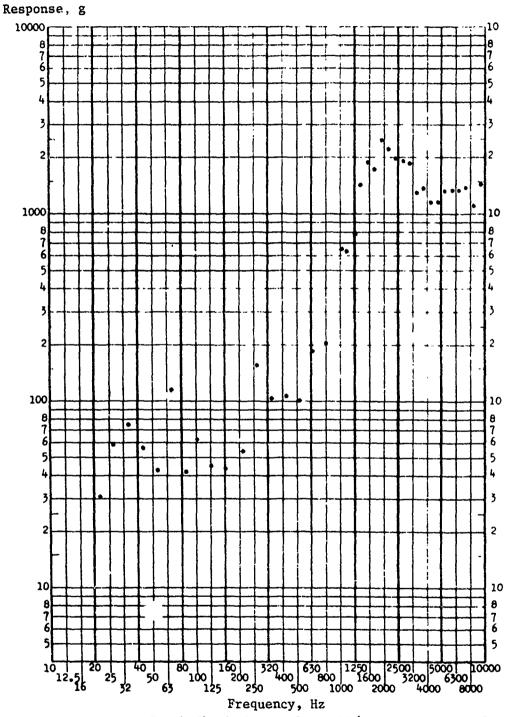
Figure 10 (concl)

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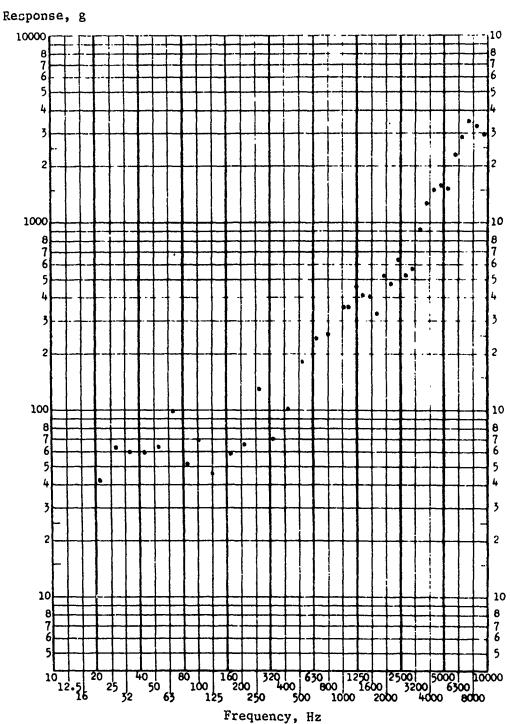
Bench Shock Test - Stage II/III Separation, Run 11 Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 11 Run 11 Shock Response Spectrum



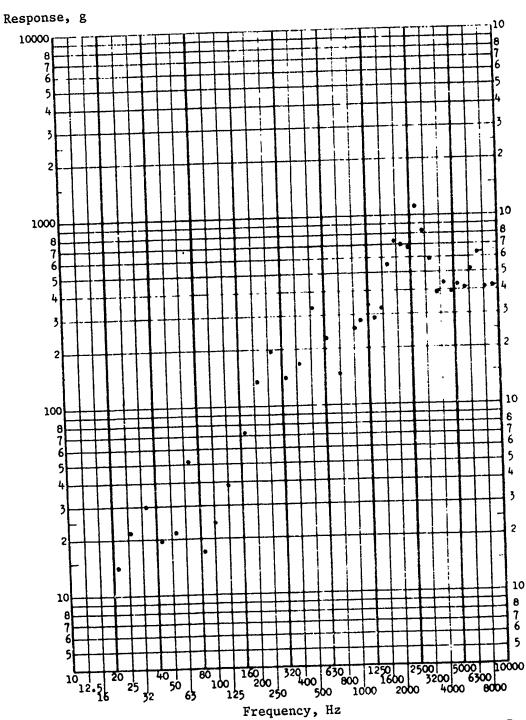
Bench Shock Test - Stage II/III Separation, Run 11 Measurement No. 2 - Tangential axis longeron near station 133

Figure 11 (cont)



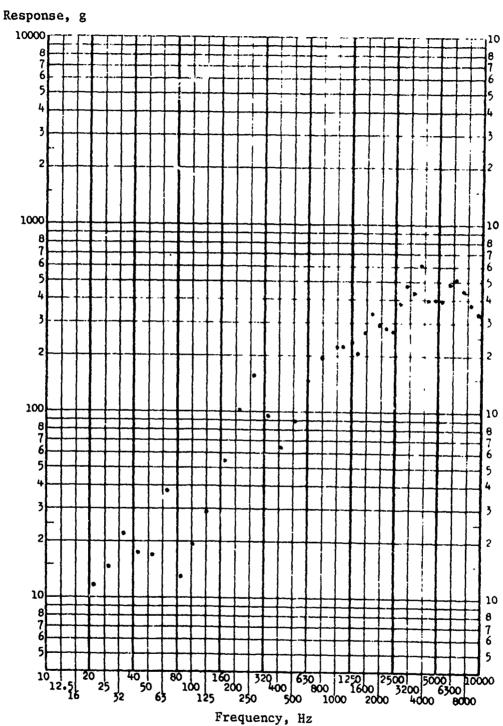
Bench Shock Test - Stage II/III Separation, Run 11 Measurement No. 3 - Radial axis longeron near station 133

Figure 11 (cont)



Bench Shock Test - Stage II/III Separation, Run 11 Measurement No. 4 - Longitudinal axis longeron near station 117

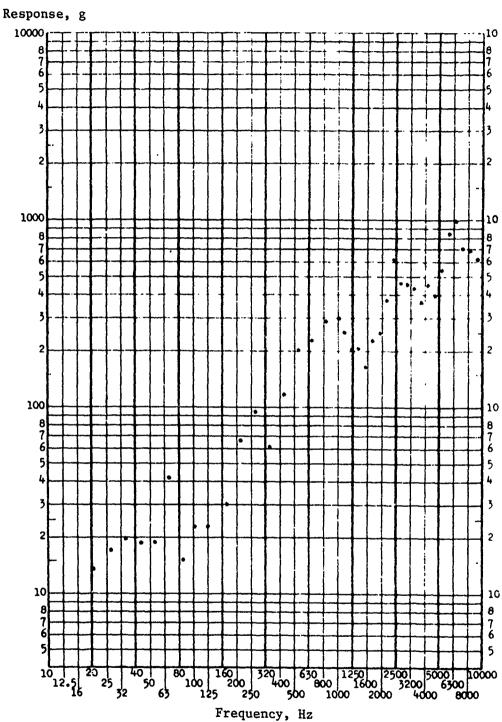
Figure 11 (cont)



Bench Shock Test - Stage II/III Separation, Run 11 Measurement No. 5 - Tangential axis longeron near station 117

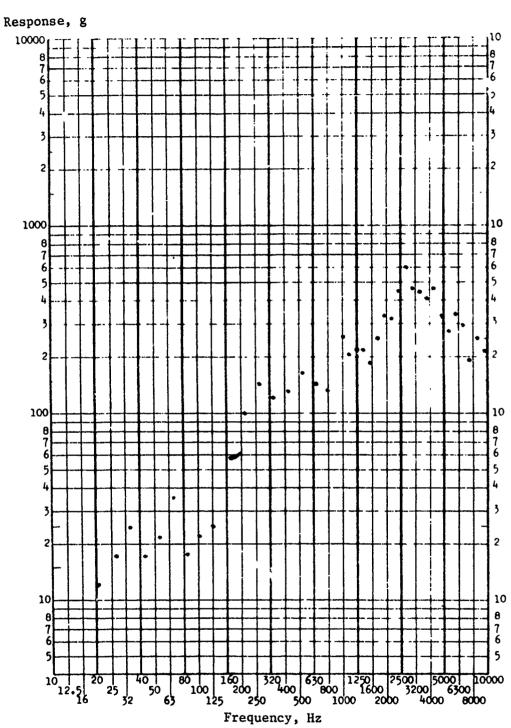
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Figure 11 (cont)



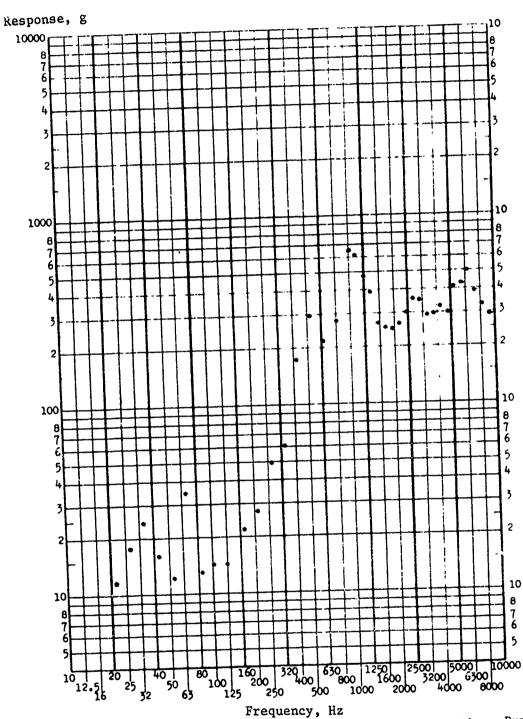
Bench Shock Test - Stage II/III Separation, Run 11 Measurement No. 6 - Radial axis longeron near station 117

Figure 11 (cont)



Bench Shock Test - Stage II/III Separation, Run 11 Measurement No. 7 - Longitudina axis longeron near station 77

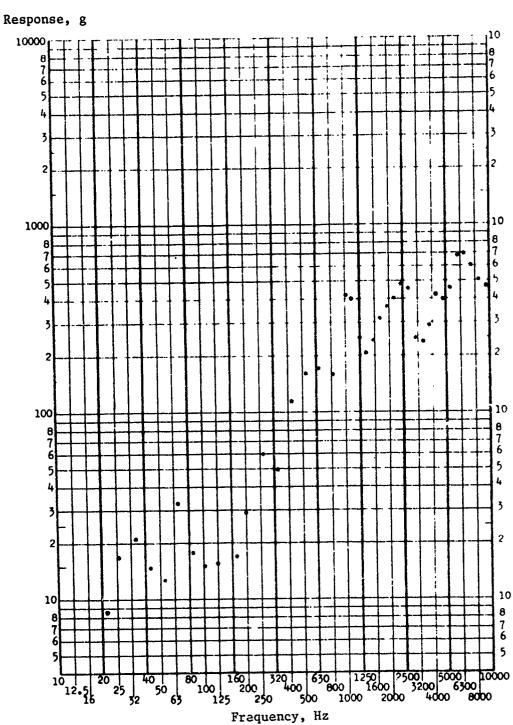
Figure 11 (cont)



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Bench Shock Test - Stage II/III Separation, Run 11 Measurement No. 8 - Tangential axis longeron near station 77

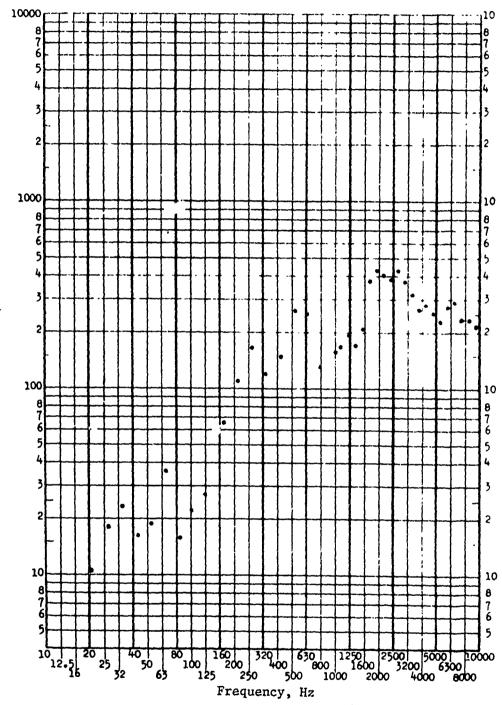
Figure 11 (cont)



Bench Shock Test - Stage II/III Separation, Run 11 Measurement No. 9 - Radial axis longeron near station 77

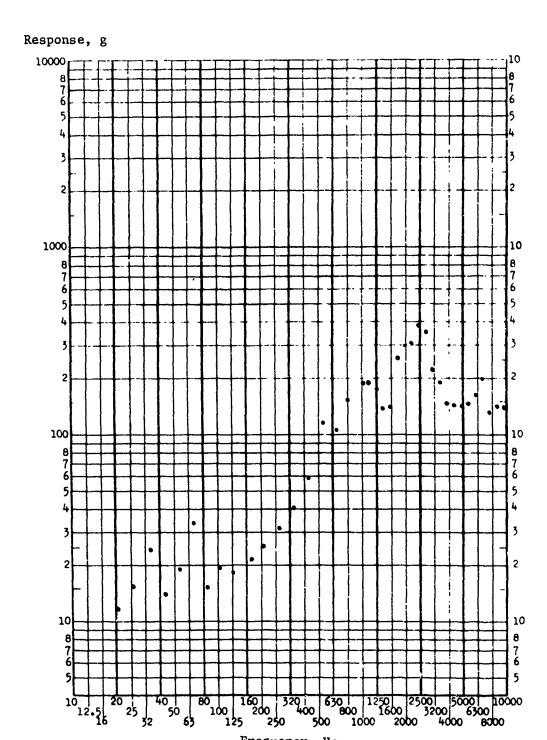
Figure 11 (cont)





Bench Shock Test - Stage II/III Separation, Run 11 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 11 (cont)

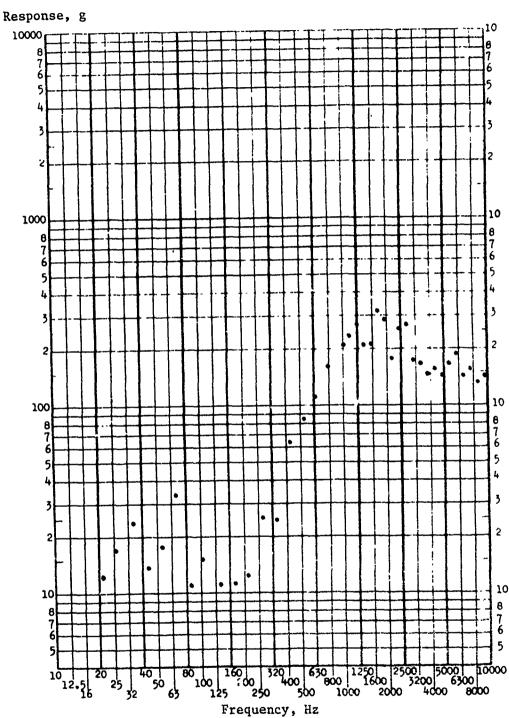


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 11

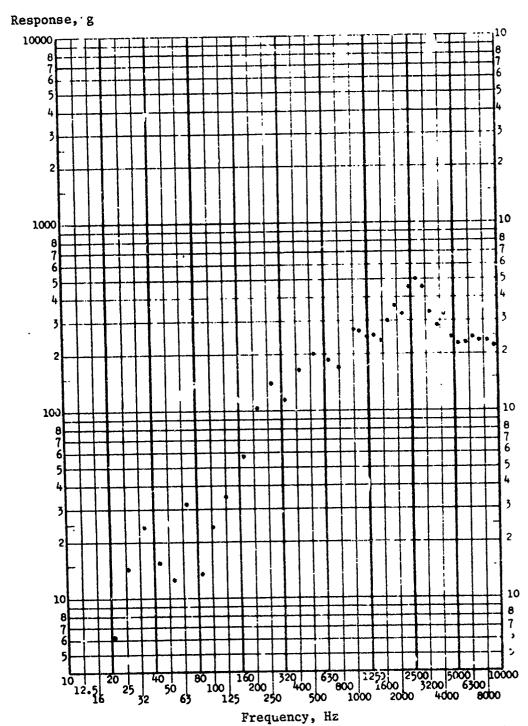
Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 11 (cont)



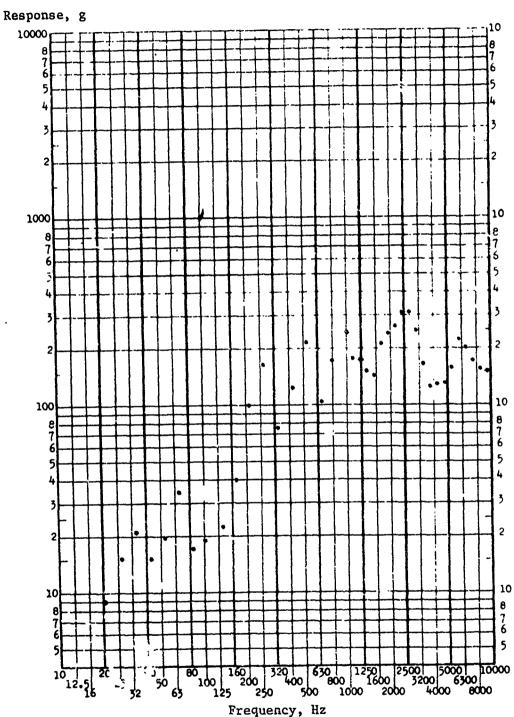
Bench Shock Test - Stage II/III Separation, Run 11 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 11 (cont)



Bench Shock Test - Stage II/III Separation, Run 11 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

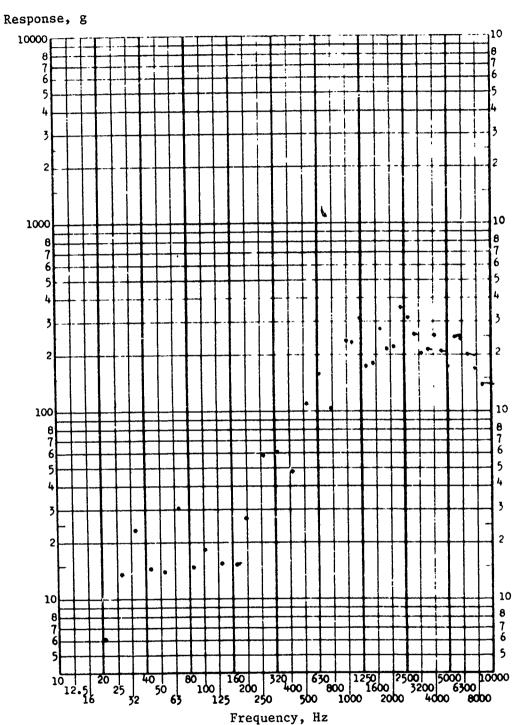
Figure 11 (cont)



Bench Shock Test - Stage II/III Separation, Run 11 Measurement No. 14 - Lateral axis truss tcp near longeron attach point

Figure 11 (cont)

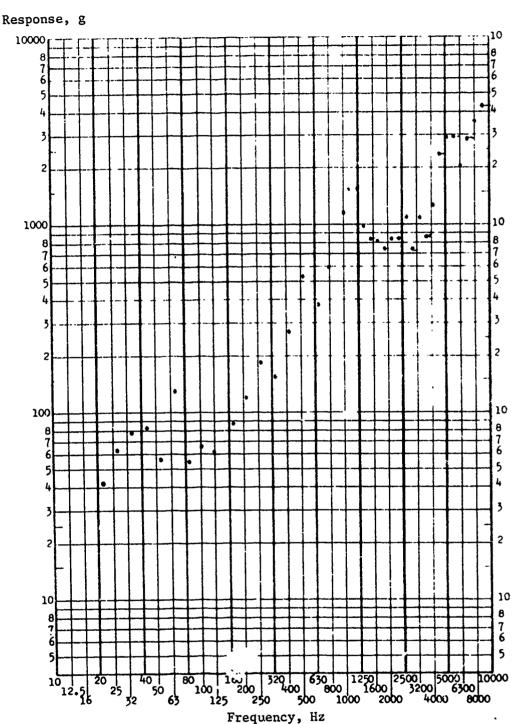
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Bench Shock Test - Stage II/III Separation, Run 11 Measurement No. 15 - Lateral axis truss top rear longeron attach point

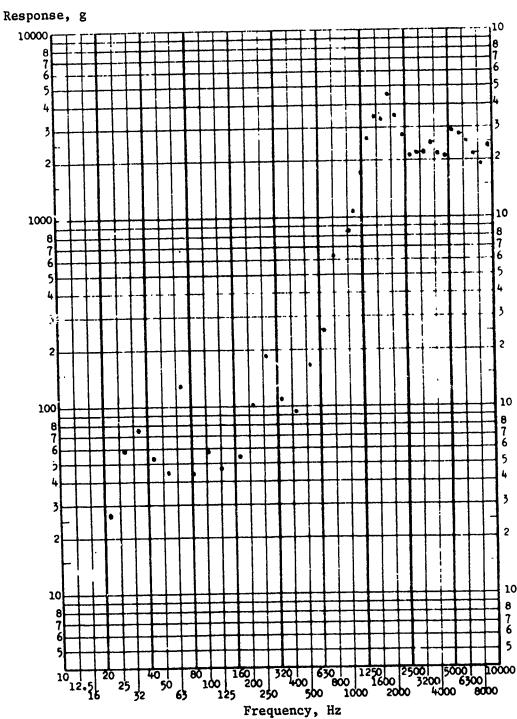
Figure 11 (concl)

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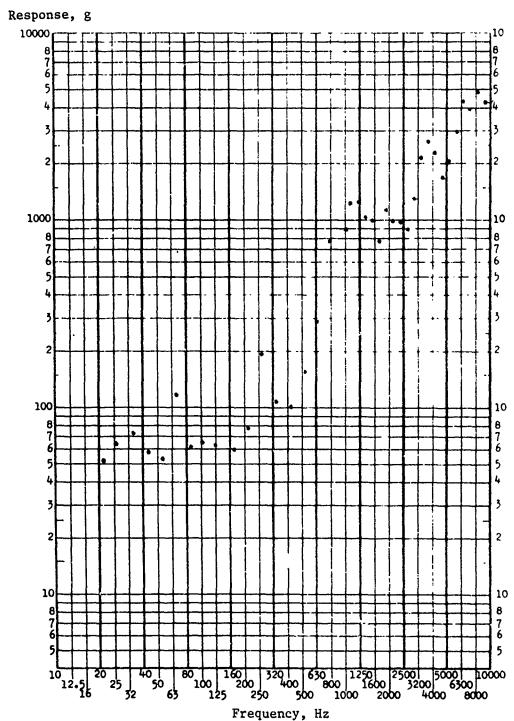
Bench Shock Test - Stage II/III Separation, Run 12 Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 12 Run 12 Shock Response Spectrum



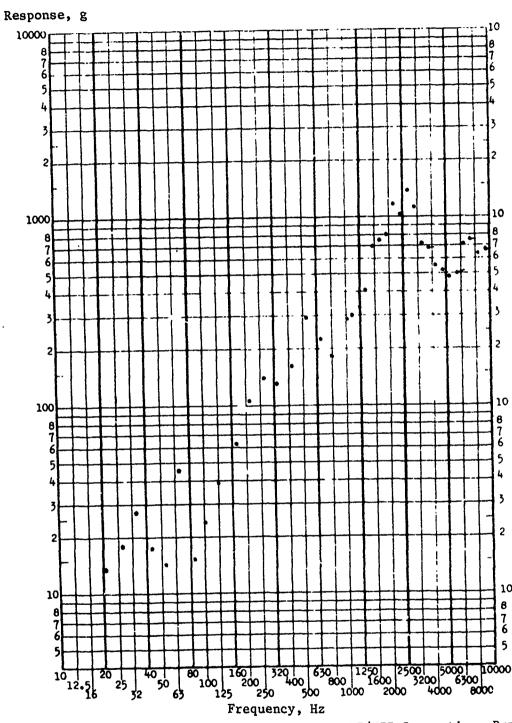
Bench Shock Test - Stage II/III Separation, Run 12 Measurement No. 2 - Tangential axis longeron near station 133

Figure 12 (cont)



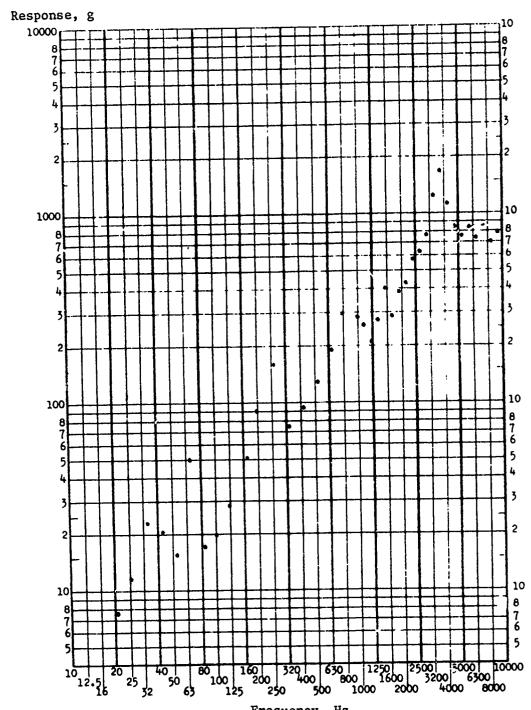
Bench Shock Test - Stage II/III Separation, Run 12 Measurement No. 3 - Radial axis longeron near station 133

Figure 12 (cont)



Bench Shock Test - Stage II/III Separation, Run 12 Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 12 (cont)



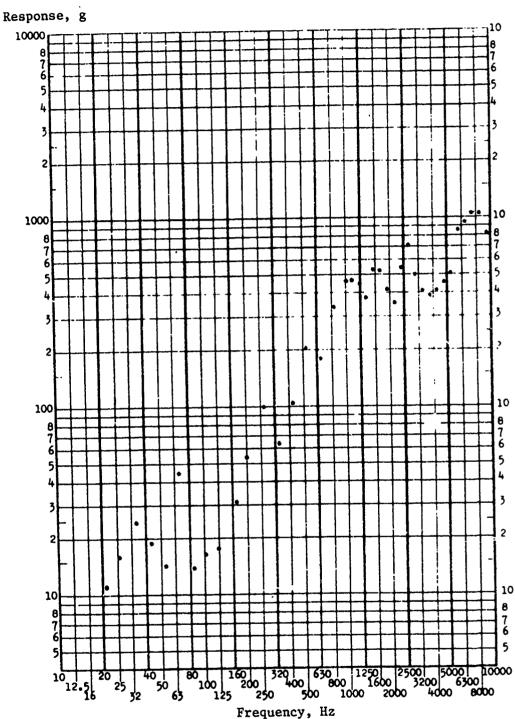
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 12

Measurement No. 5 - Tangential axis longeron near

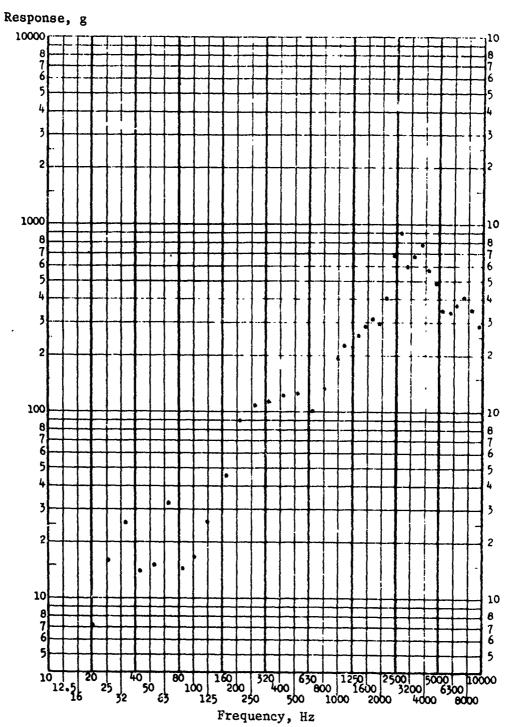
station 117

Figure 12 (cont)



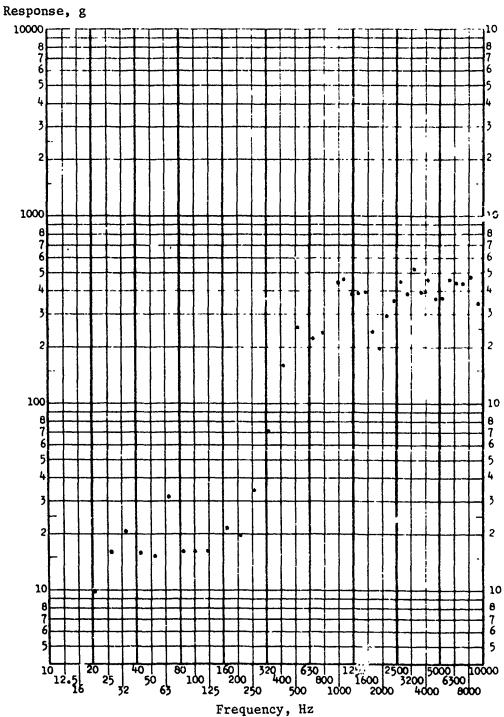
Bench Shock Test - Stage II/III Separation, Run 12 Measurement No. 6 - Radial axis longeron near station 117

Figure 12 (cont)



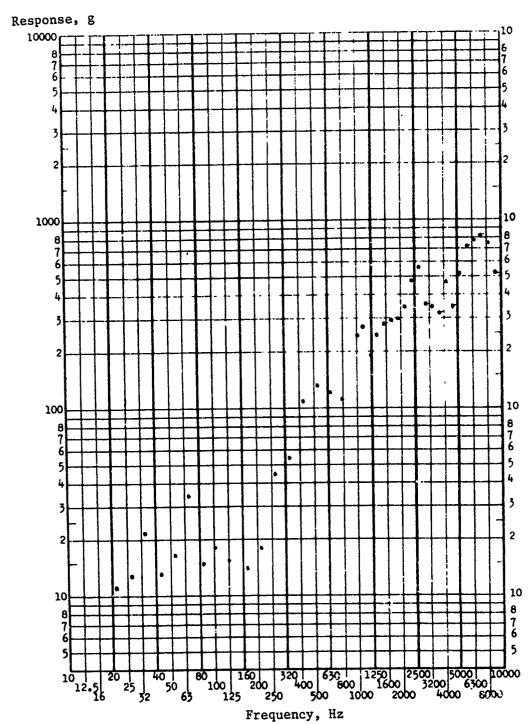
Bench Shock Test - Stage II/III Separation, Run 12 Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 12 (cont)



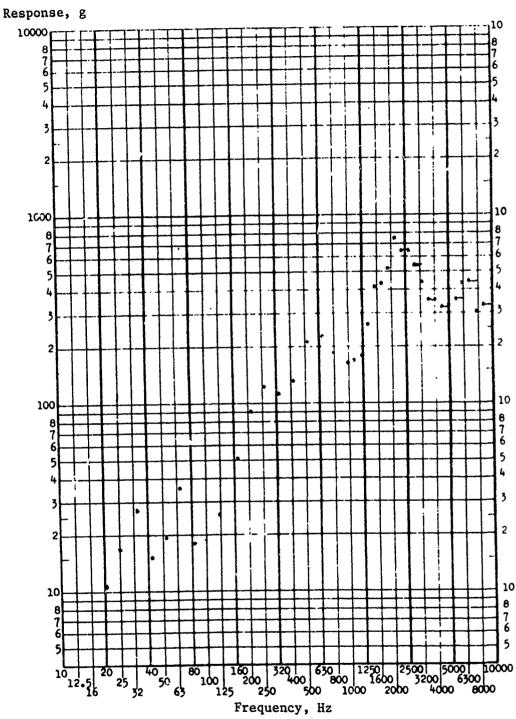
Bench Shock Test - Stage II/lII Separation, Run 12 Measurement No. 8 - Tangentia axis longeron near station 77

Figure 12 (cont)



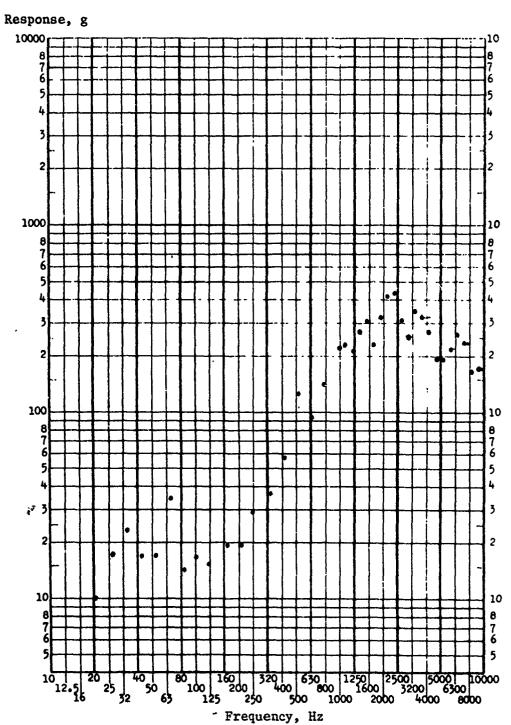
Bench Shock Test - Stage II/III Separation, Run 12 Measurement No. 9 - Radial axis longeron near station 77

Figure 12 (cont)



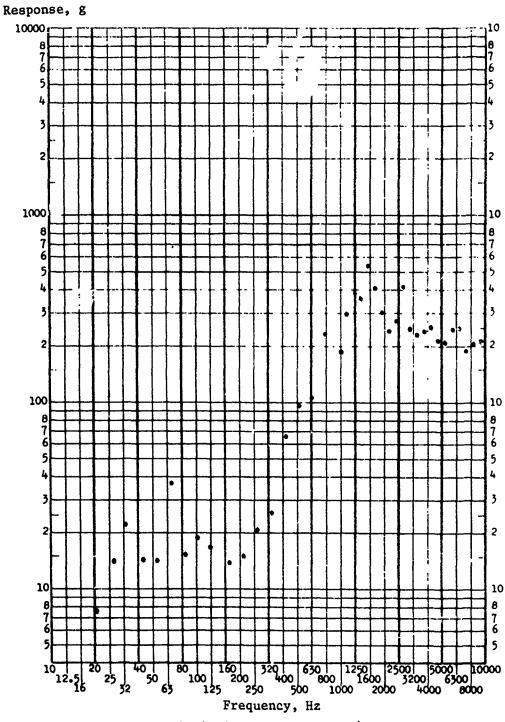
Bench Shock Test - Stage II/III Separation, Run 12 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 12 (cont)



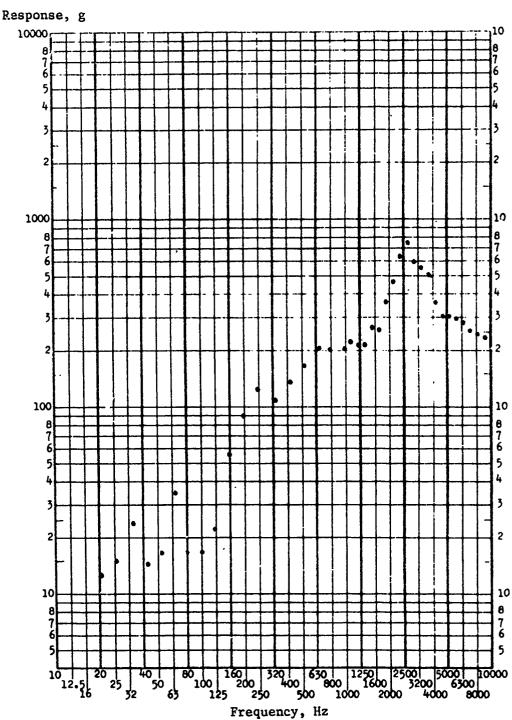
Bench Shock Test - Stage II/III Separation, Run 12 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 12 (cont)



Bench Shock Test - Stage II/III Separation, Run 12 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 12 (cont)

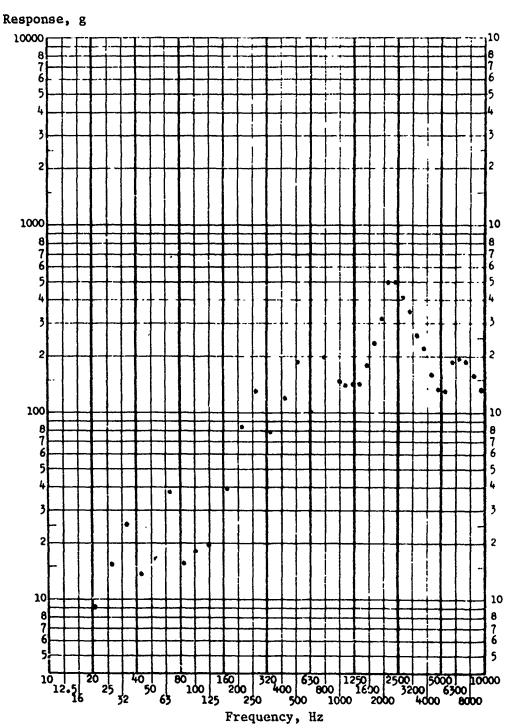


Bench Shock Test - Stage II/III Separation, Run 12 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

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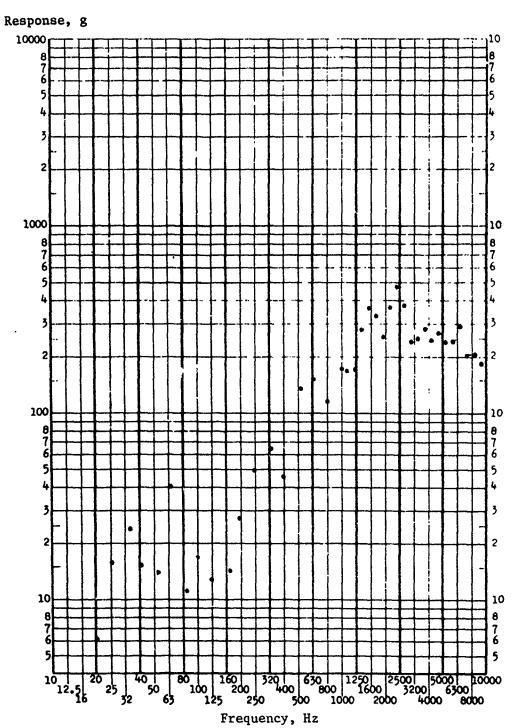
Figure 12 (cont)

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Bench Shock Test - Stage II/III Separation, Run 12 Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 12 (cont)

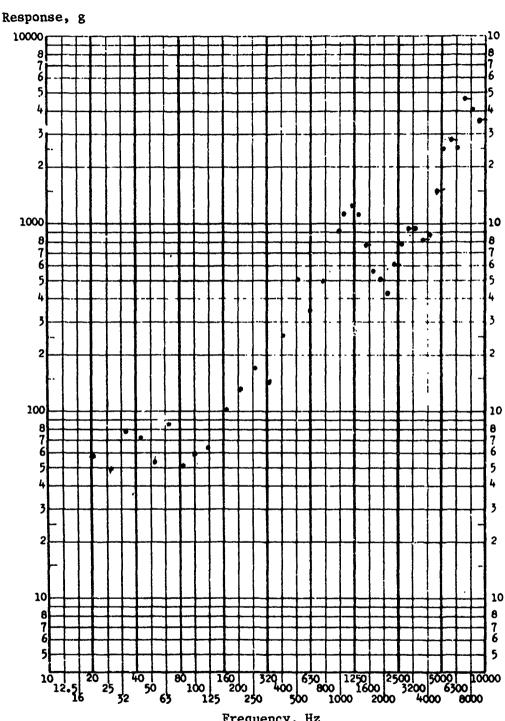


Bench Shock Test - Stage II/III Separation, Run 12 Measurement No. 15 - Lateral axis truss top near longeron attach point

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Figure 12 (concl)

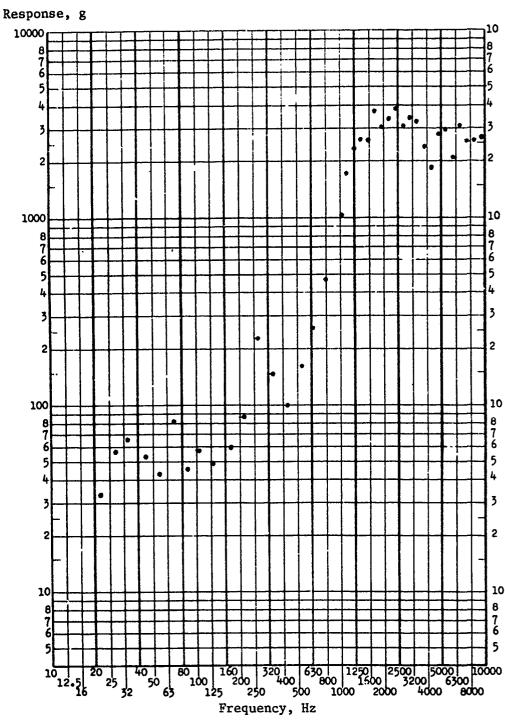
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Frequency, Hz

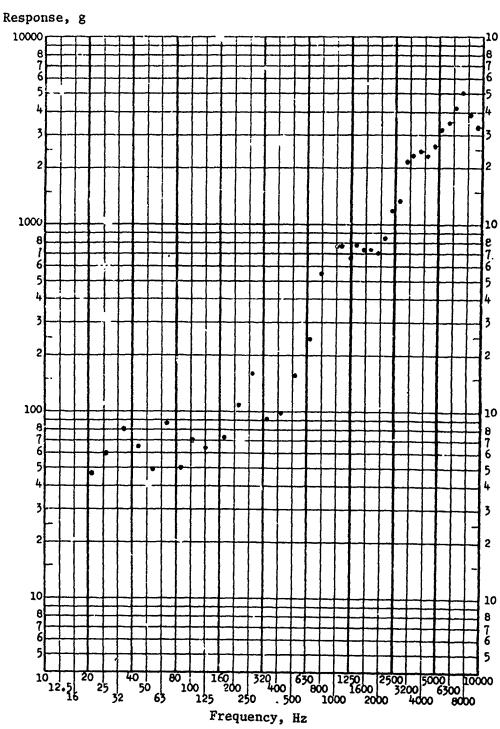
Bench Shock Test - Stage II/III Separation, Run 13 \_
Measurement No. 1 - Longitudinal axis longeron
near station 133

Figure 13 Run 13 Shock Response Spectrum



Bench Shock Test - Stage II/III Separation, Run 13 \_\_ Measurement No. 2 - Tangential axis longeron near station 133

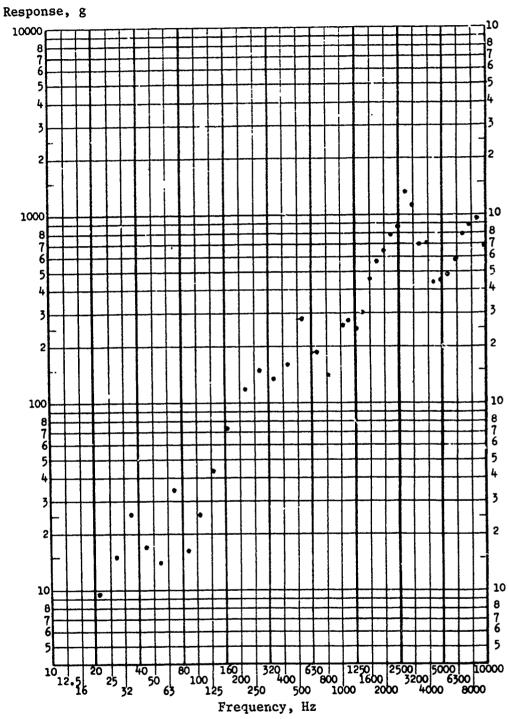
Figure 13 (cont)



Bench Shock Test - Stage II/III Separation, Run 13 \_ Measurement No. 3 - Radial axis longeron near station 133

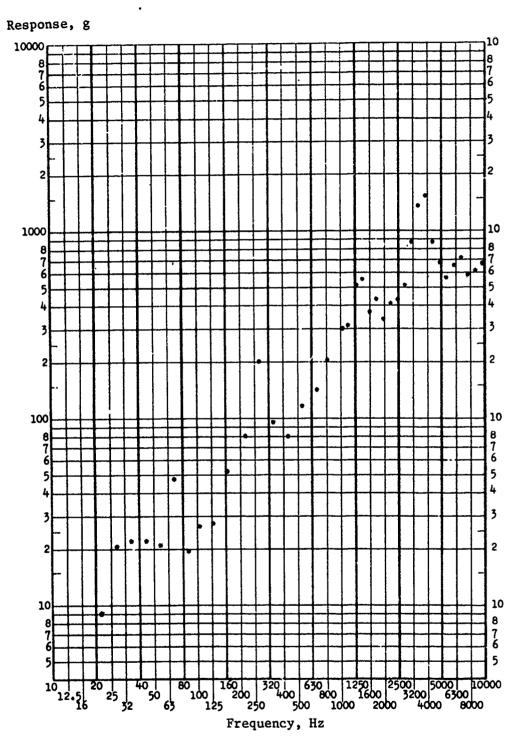
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Figure 13 (cont)



Bench Shock Test - Stage II/III Separation, Run 13 \_ Measurement No. 4 - Longitudinal axis longeron near station 117

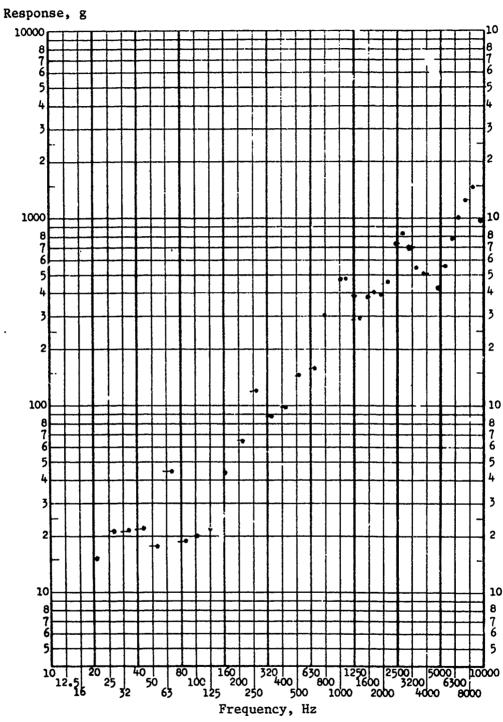
Figure 13 (cont)



Bench Shock Test - Stage II/III Separation, Run 13 \_ Measurement No. 5 - Tangential axis longeron near station 117

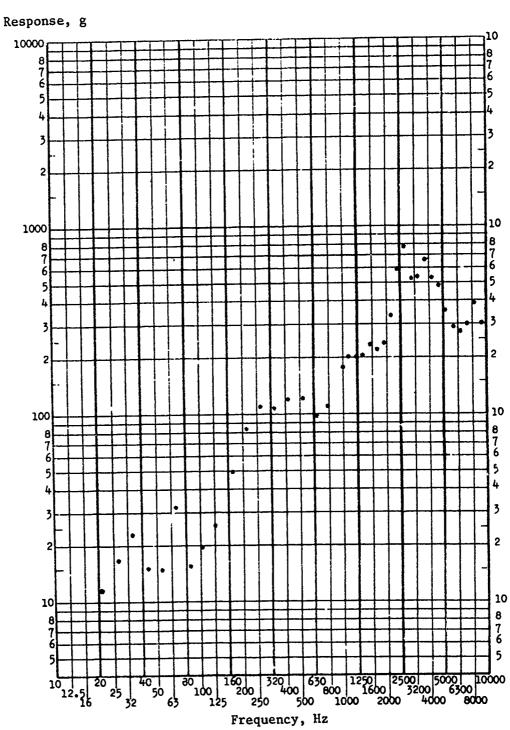
Listenstanding Control of the contro

Figure 13 (cont)



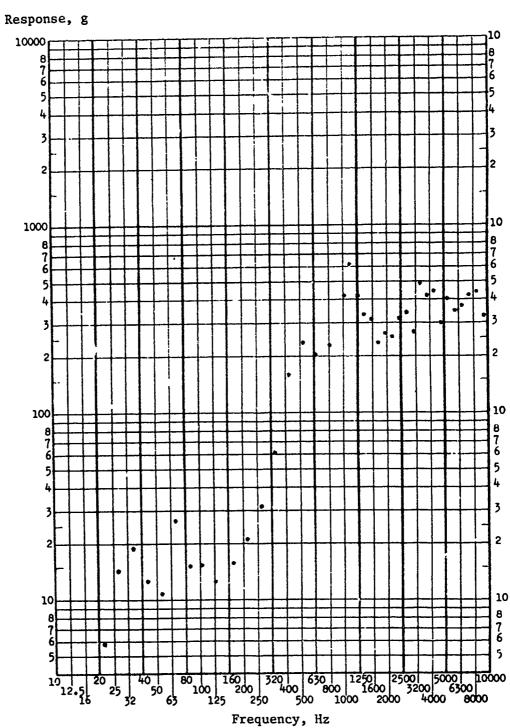
Bench Shock Test - Stage II/III Separation, Run 13 \_ Measurement No. 6 - Radial axis longeron near station 117

Figure 13 (cont)



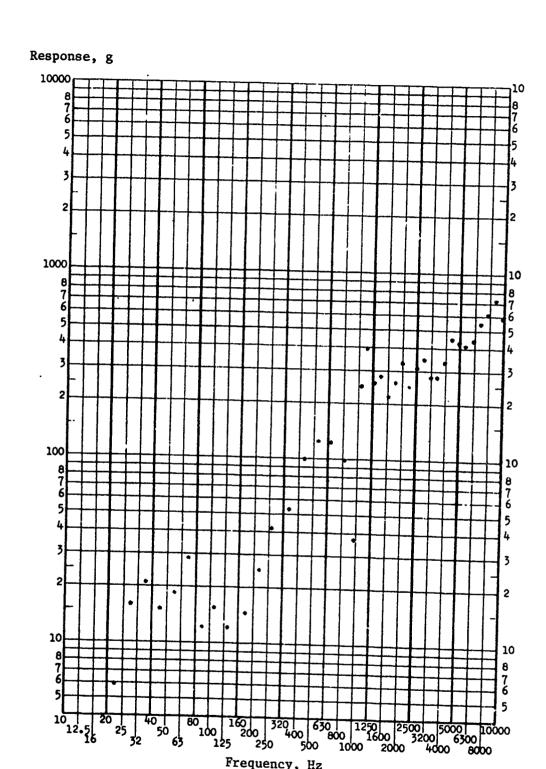
Bench Shock Test - Stage II/III Separation, Run 13 \_\_ Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 13 (cont)



Bench Shock Test - Stage II/III Separation, Run 13 \_ Measurement No. 8 - Tangential axis longeron near station 77

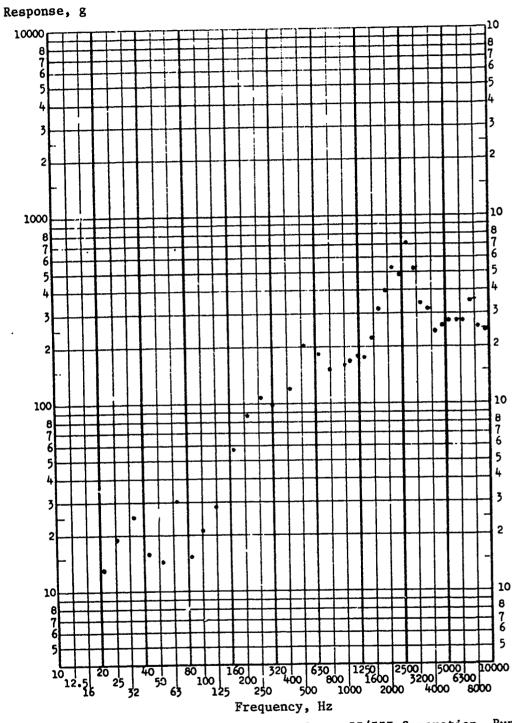
Figure 13 (cont)



Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 13 \_
Measurement No. 9 - Radial axis longeron near
station 77

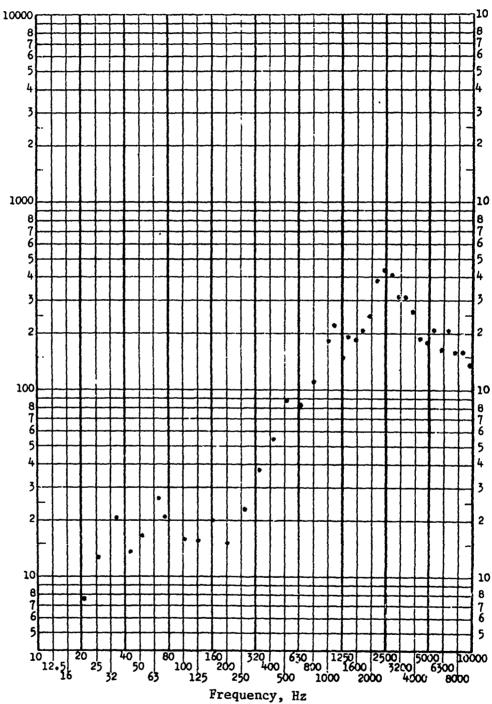
Figure 13 (cont)



Bench Shock Test - Stage II/III Separation, Run 13 \_ Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

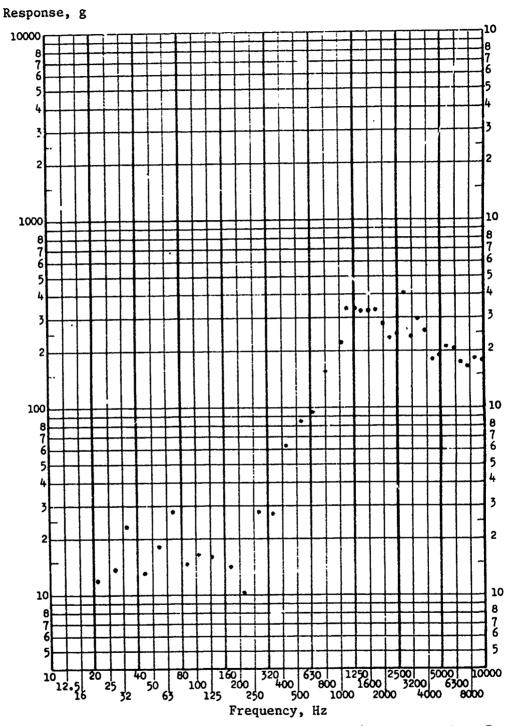
Figure 13 (cont)

## Response, g



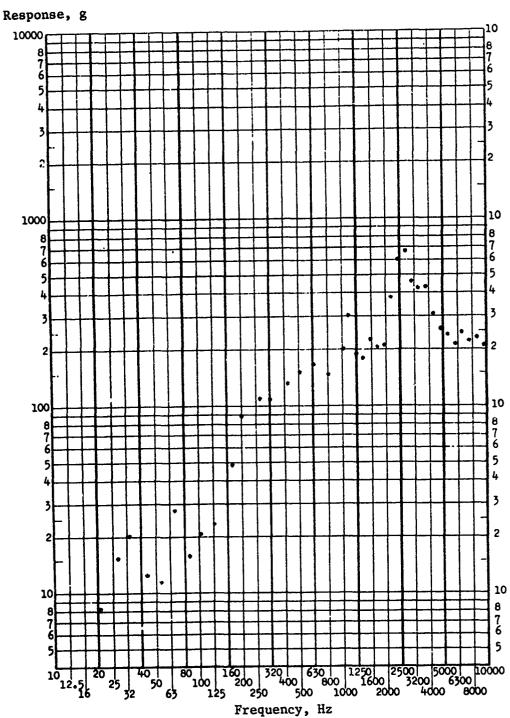
Bench Shock Test - Stage II/III Separation, Run 13 \_ Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 13 (cont)



Bench Shock Test - Stage II/III Separation, Run 13 \_\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

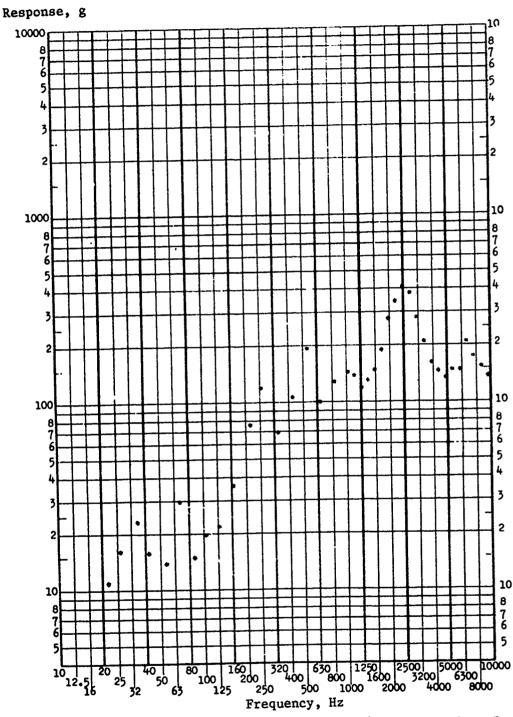
Figure 13 (cont)



Bench Shock Test - Stage II/III Separation, Run 13 \_\_ Measurement No. 13 - Longitudinal axis truss top near longeron attach point

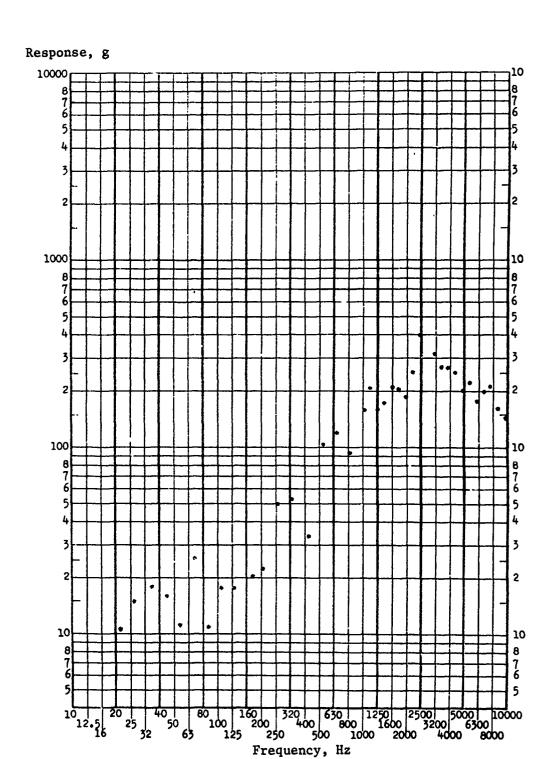
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Figure 13 (cont)



Bench Shock Test - Stage II/III Separation, Run 13 \_ Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 13 (cont)



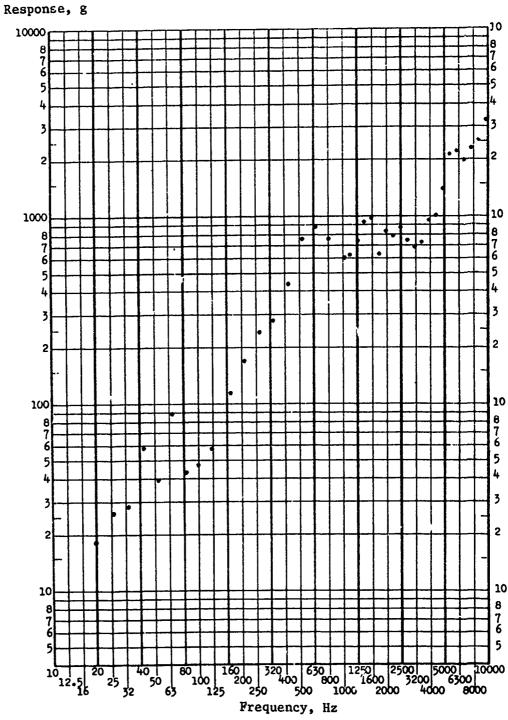
Bench Shock Test - Stage II/III Separation, Run 13 \_ Measurement No. 15 - Lateral axis truss top near longeron attach point

Figure 13 (concl)

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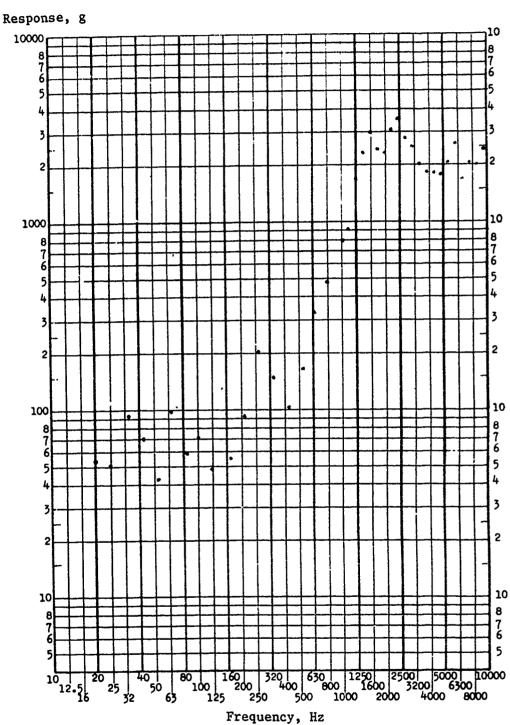
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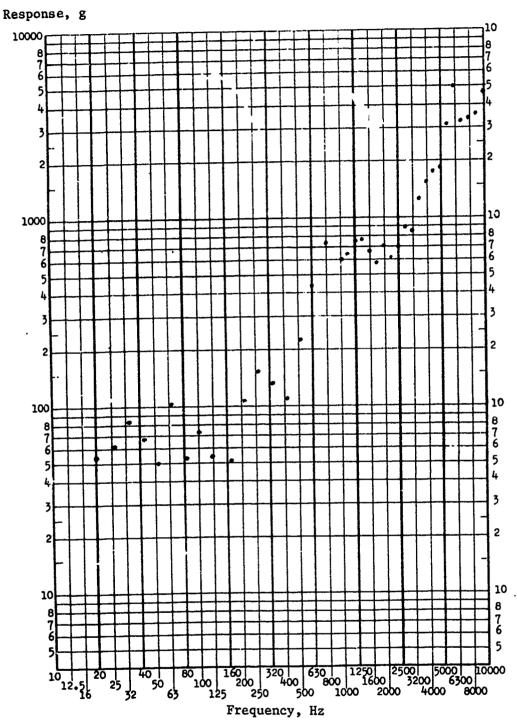
Bench Shock Test - Stage II/III Separation, Run 14 \_\_ Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 14 Run 14 Shock Response Spectrum



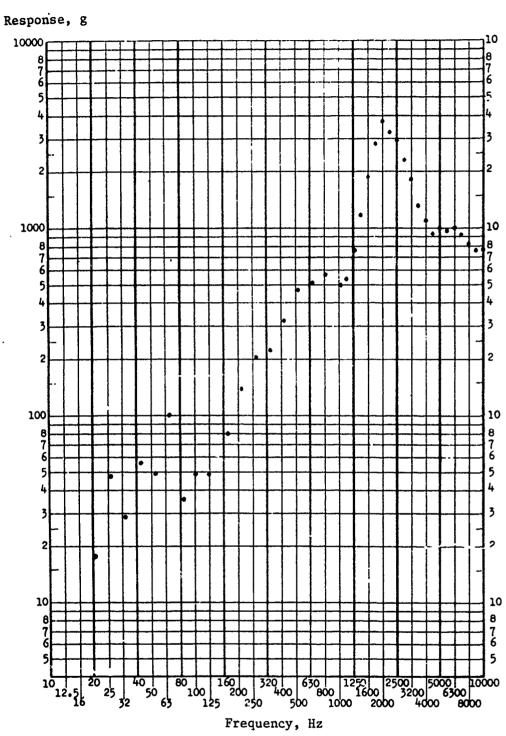
Bench Shock Test - Stage II/III Separation, Run 14 \_\_ Measurement No. 2 - Tangential axis longeron near station 133

Figure 14 (cont)



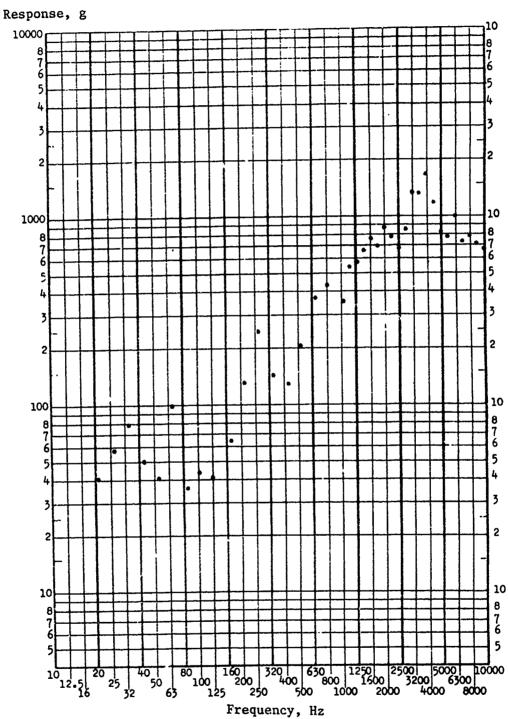
Bench Shock Test - Stage II/III Separation, Run 14 \_\_ Measurement No. 3 - Radial axis longeron near station 133

Figure 14 (cont)



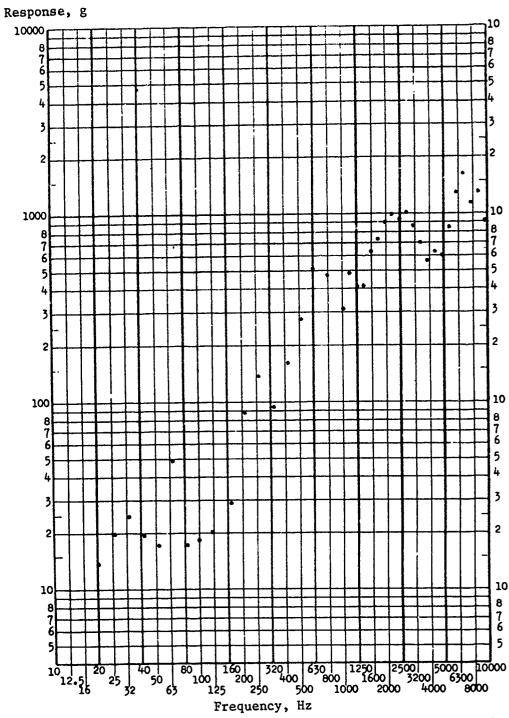
Bench Shock Test - Stage II/III Separation, Run 14 \_\_ Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 14 (cont)



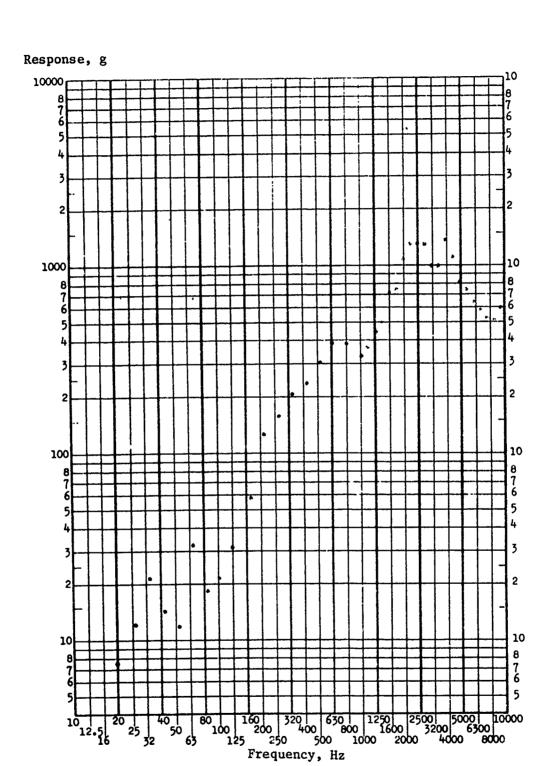
Bench Shock Test - Stage II/III Separation, Run 14 \_\_ Measurement No. 5 - Tangential axis longeron near station 117

Figure 14 (cont)



Bench Shock Test - Stage II/III Separation, Run 14 \_\_ Measurement No. 6 - Radial axis longeron near station 117

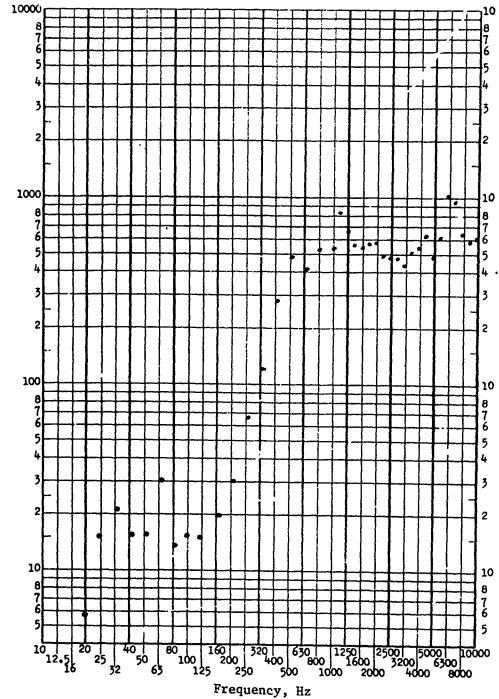
Figure 14 (cont)



Bench Shock Test - Stage II/III Separation, Run 14 \_ Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 14 (cont)

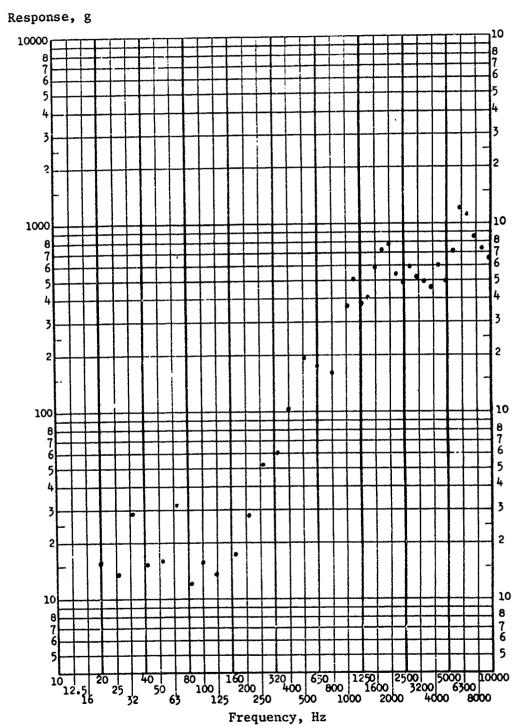




Bench Shock Test - Stage II/III Separation, Run 14 \_\_ Measurement No. 8 - Tangential axis longeron ne.r station 77

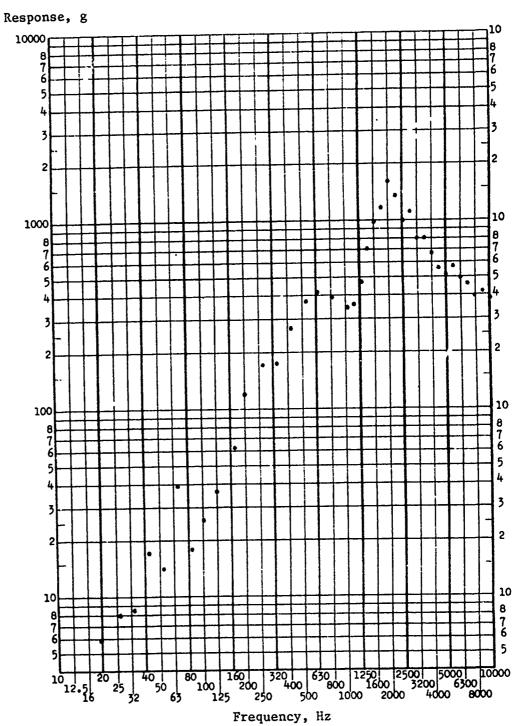
Figure 14 (cont)

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Bench Shock Test - Stage II/III Separation, Run 14 \_ Measurement No. 9 - Radial axis longeron near station 77

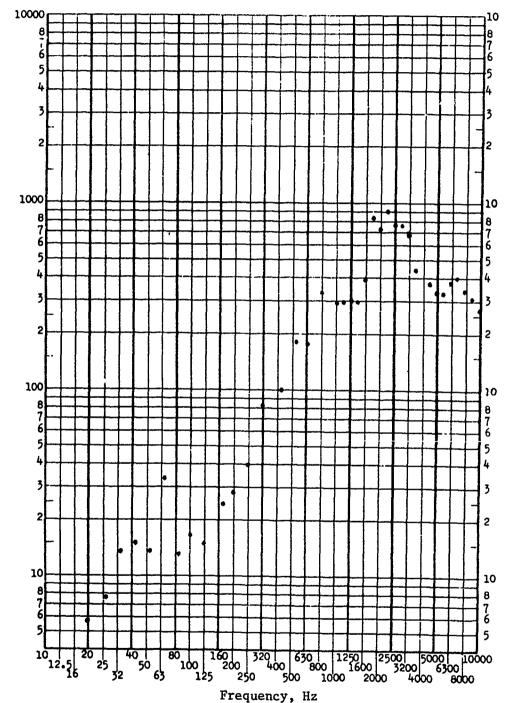
Figure 14 (cont)



Bench Shock Test - Stage II/III Separation, Run 14 \_\_ Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

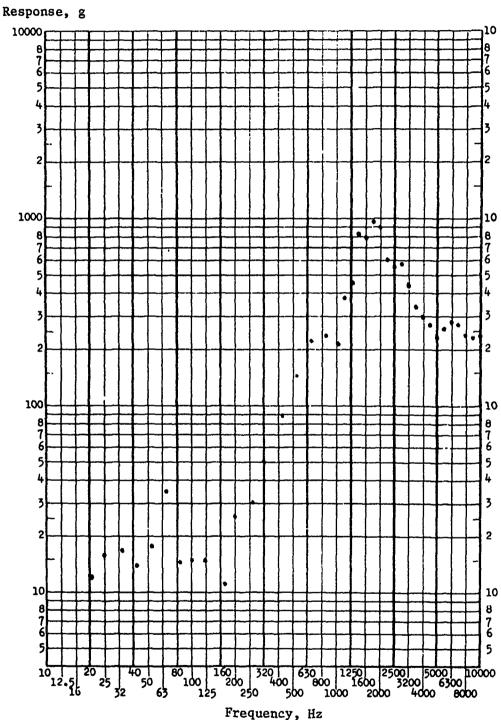
Figure 14 (cont)





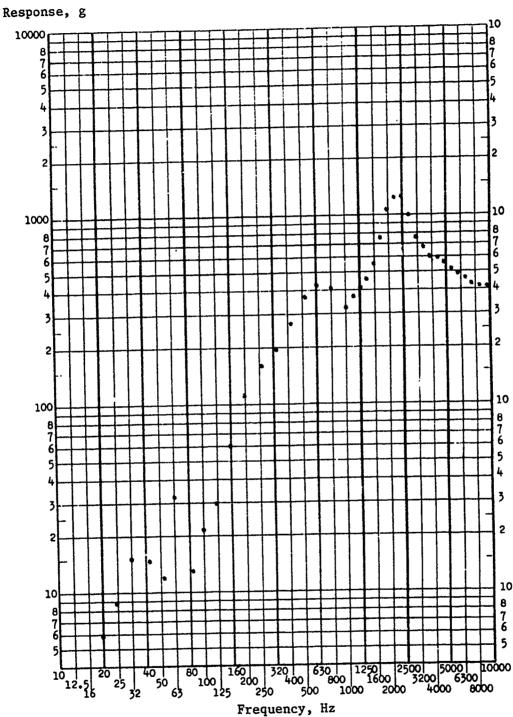
Bench Shock Test - Stage II/III Separation, Run 14 \_ Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 14 (cont)



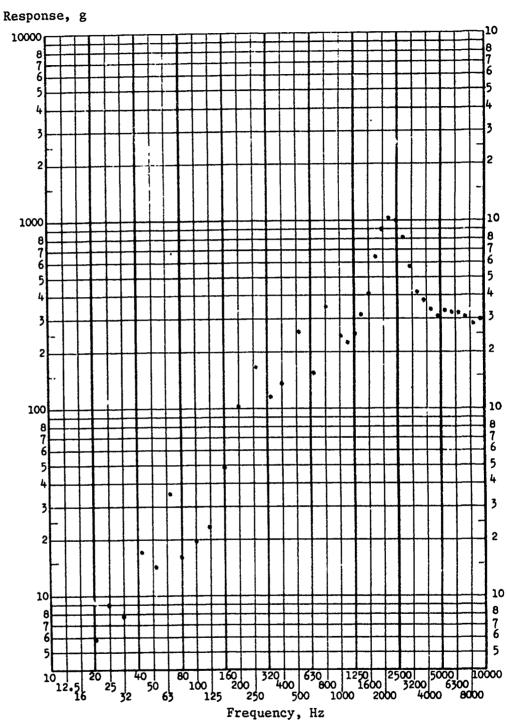
Bench Shock Test - Stage II/III Separation, Run 14 \_\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 14 (cont)



Bench Shock Test - Stage II/III Separation, Run 14 \_\_\_ Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 14 (cont)



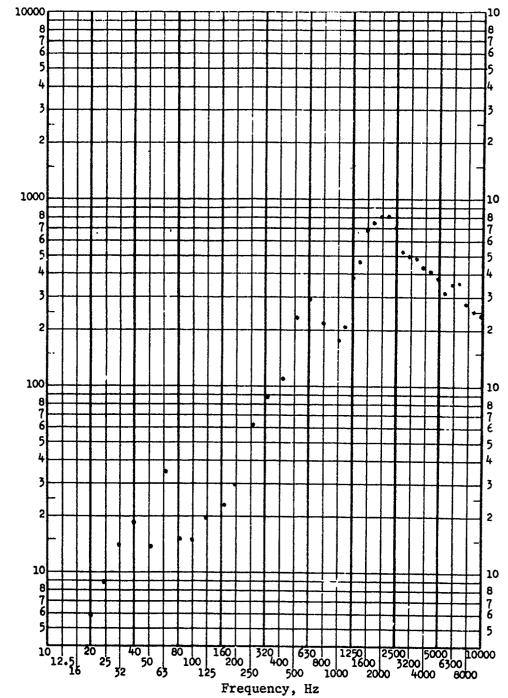
the state of the s

Bench Shock Test - Stage II/III Separation, Run 14 \_ Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 14 (cont)



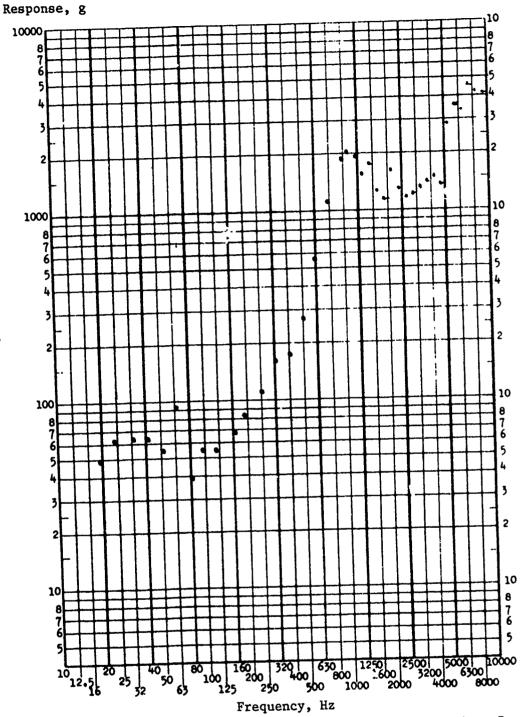
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Bench Shock Test - Stage II/III Separation, Run 14 \_ Measurement No. 15 - Lateral axis truss top near longeron attach point

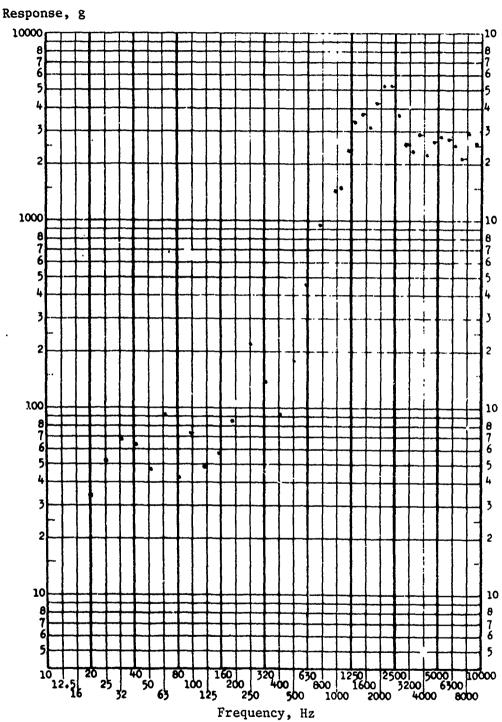
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Figure 14 (concl)



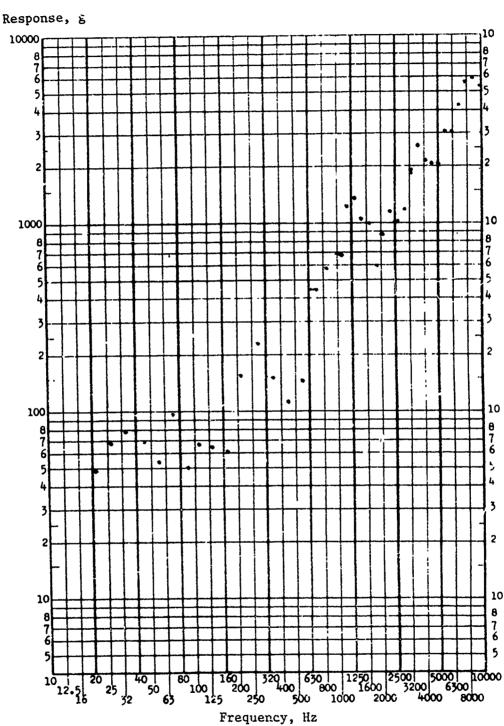
Bench Shock Test - Stage II/III Separation, Run 15\_ Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 15 Run 15 Shock Response Spectrum



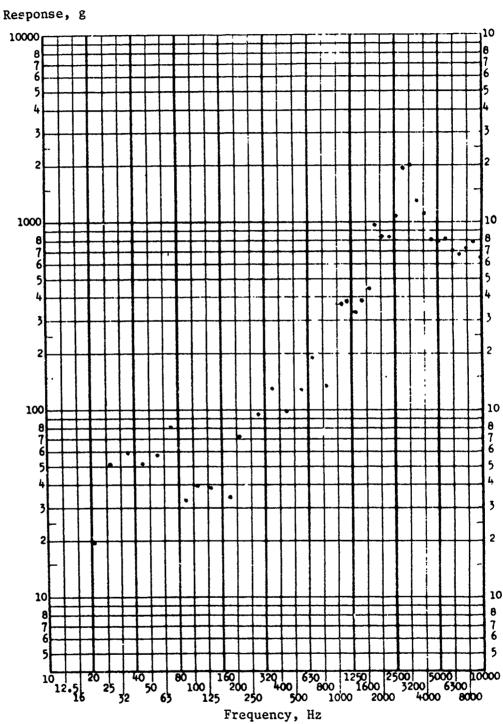
Bench Shock Test - Stage II/III Separation, Run 15\_\_\_ Measurement No. 2 - Tangential axis longeron near station 133

Figure 15 (cont)



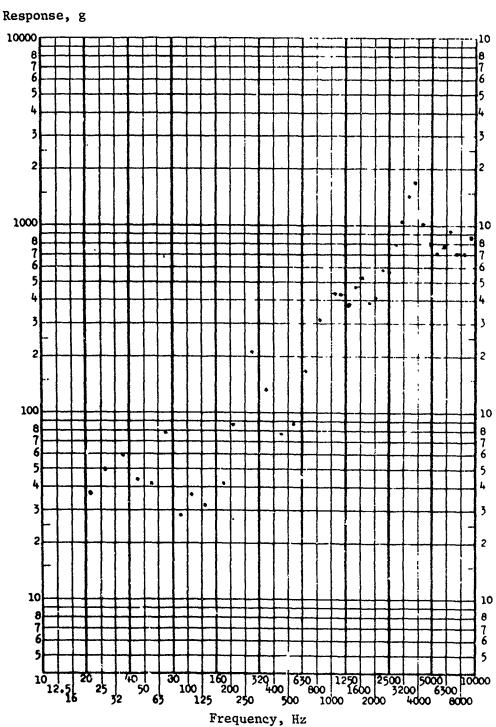
Bench Shock Test - Stage II/III Separation, Run 15 \_\_\_ Measurement No. 3 - Radial axis longeron near station 133

Figure 15 (cont)



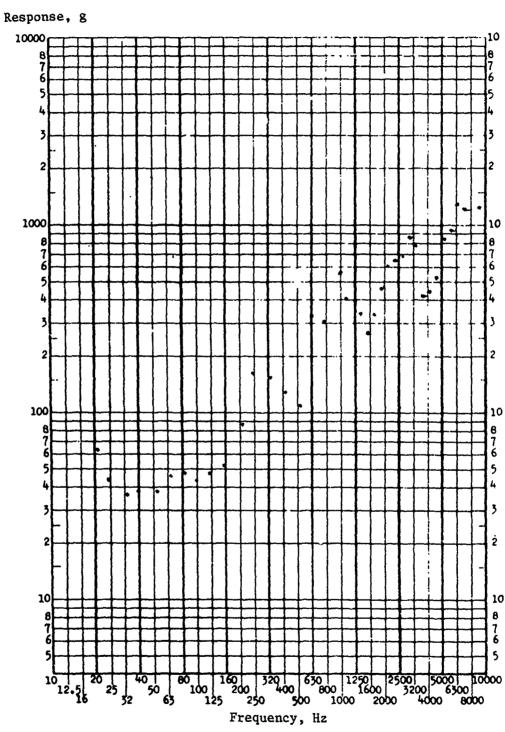
Bench Shock Test - Stage II/III Separation, Run 15\_\_\_ Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 15 (cont)



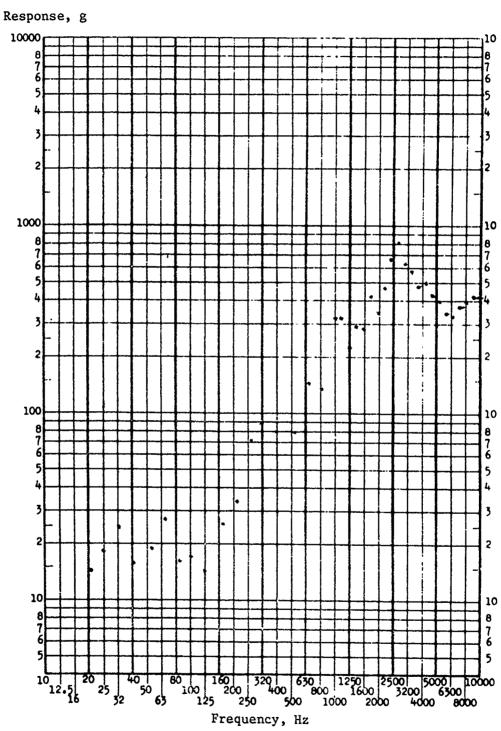
Bench Shock Test - Stage II/III Separation, Run 15 \_ Measurement No. 5 - Tangential axis longeron near station 117

Figure 15 (cont)



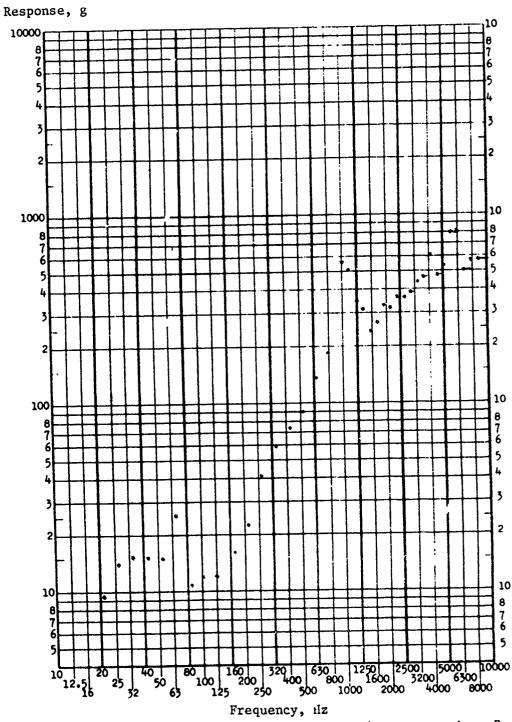
Bench Shock Test - Stage II/III Separation, Run 15 \_\_ Measurement No. 6 - Radial axis longeron near station 117

Figure 15 (cont)



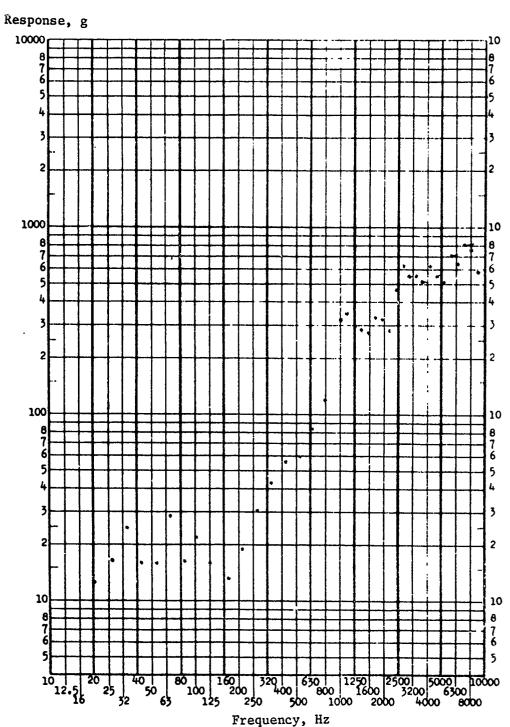
Bench Shock Test - Stage II/III Separation, Run 15\_ Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 15 (cont)



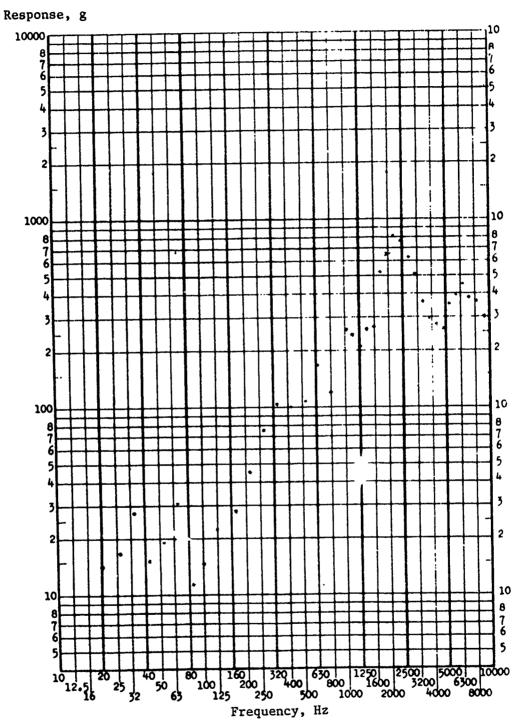
Bench Shock Test - Stage II/III Separation, Run 15\_ Measurement No. 8 - Tangential axis long\_ron near station 77

Figure 15 (cont)



Bench Shock Test - Stage II/III Separation, Run 15\_\_\_ Measurement No. 9 - Radial axis longeron near station 77

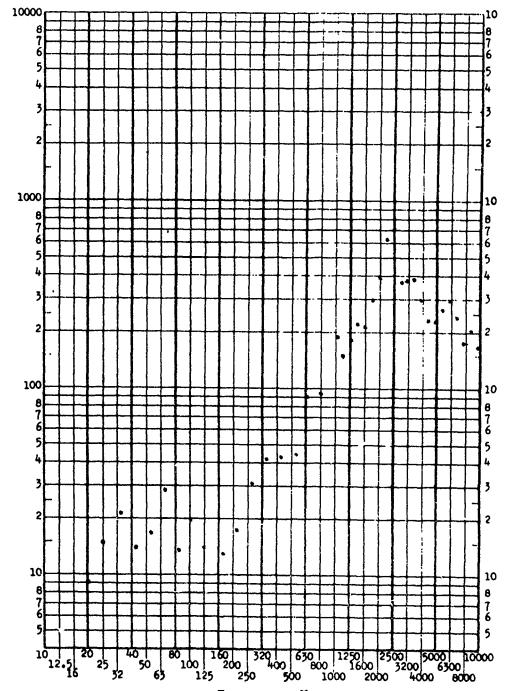
Figure 15 (cont)



Bench Shock Test - Stage II/III Separation, Run 15\_ Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 15 (cont)



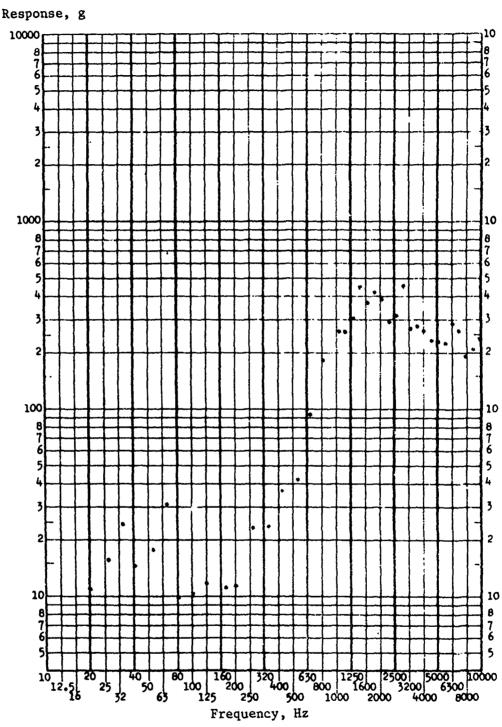


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 15

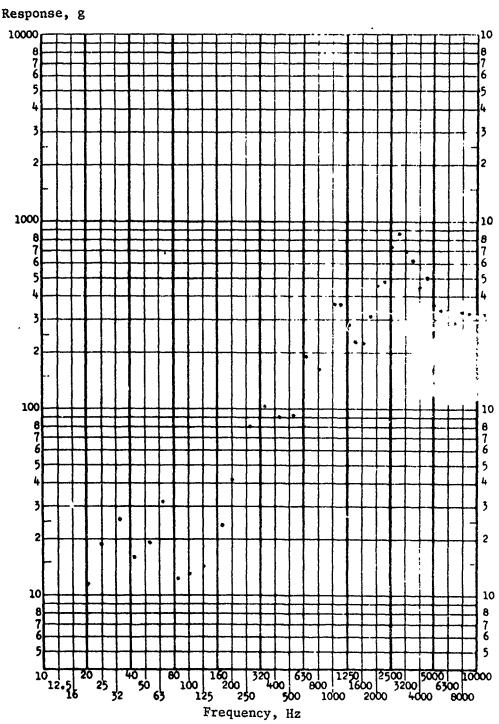
Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 15 (cont)



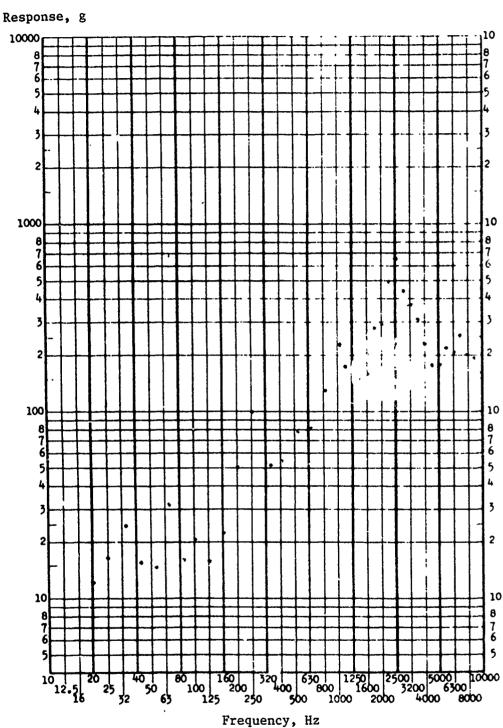
Bench Shock Test - Stage II/III Separation, Run 15\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 15 (cont)



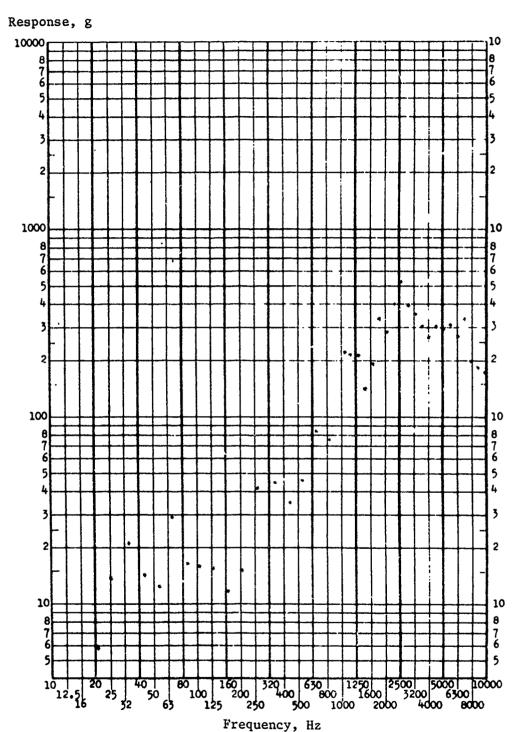
Bench Shock Test - Stage II/III Separation, Run 15\_\_\_ Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 15 (cont)



Bench Shock Test - Stage II/III Separation, Run 15\_\_ Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 15 (cont)



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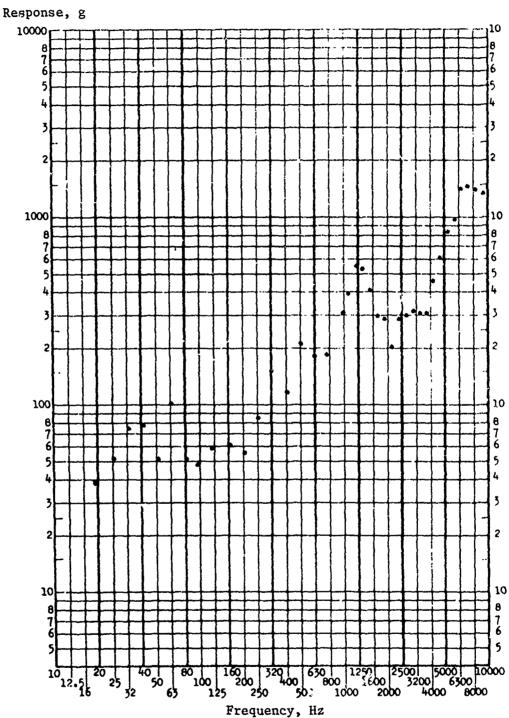
Bench Shock Test - Stage II/III Separation, Run 15\_\_\_ Measurement No. 15 - Lateral axis truss top near longeron attach point

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Figure 15 (concl)

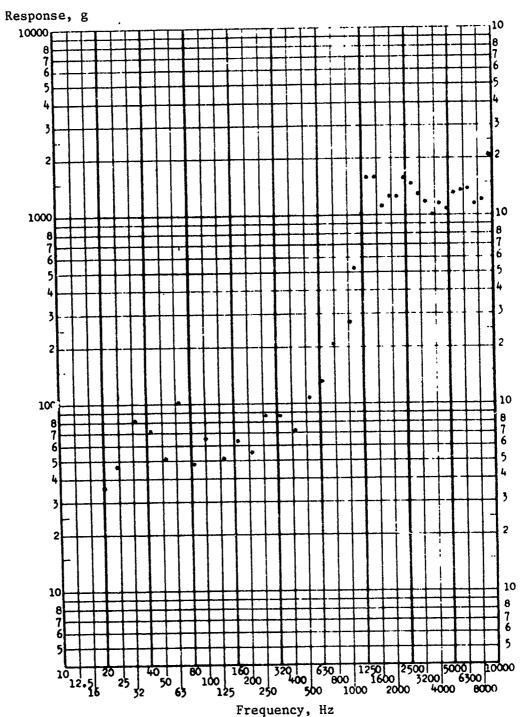
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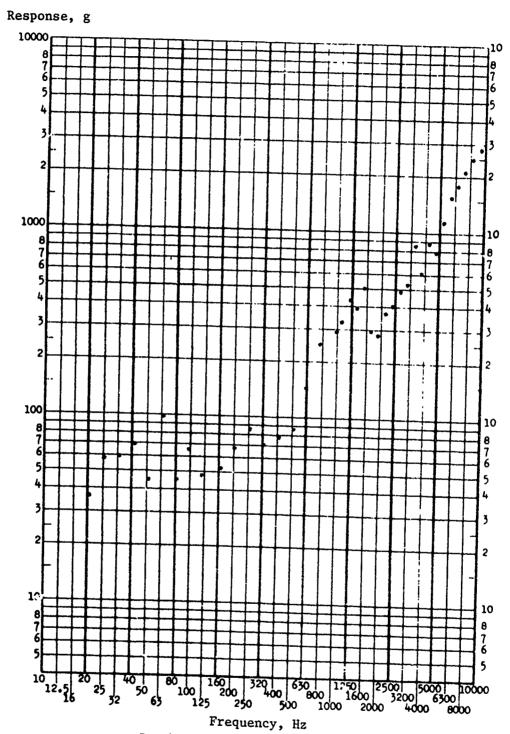
Bench Shock Test - Stage II/III Separation, Run 16 Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 16 Run 16 Shock Response Spectrum



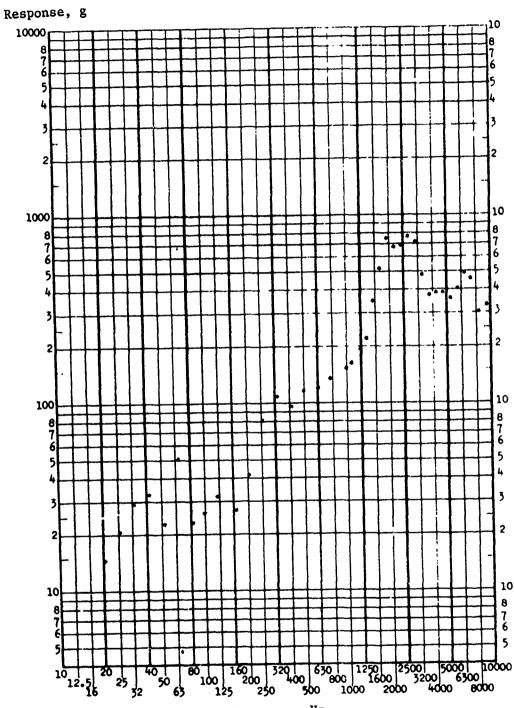
Bench Shock Test - Stage II/III Separation, Run 16 Measurement No. 2 - Tangential axis longeron near station 133

Figure 16 (cont)



Bench Shock Test - Stage II/III Separation, Run 16 Measurement No. 3 - Radial axis longeron near station 133

Figure 16 (cont)



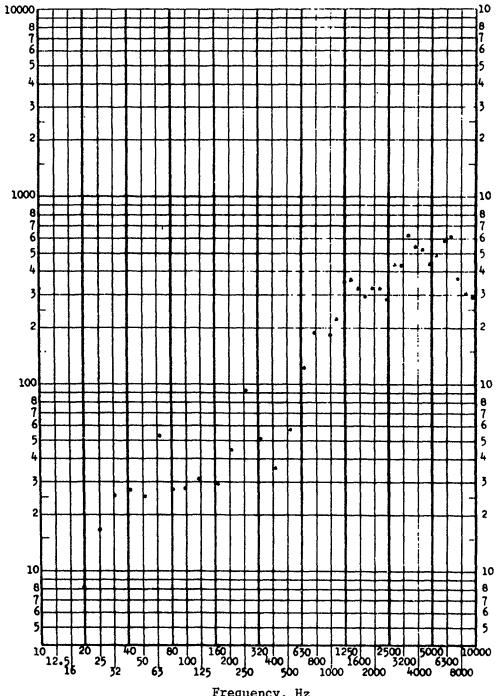
Frequency, Hz

Beach Shock Test - Stage II/III Separation, Run 16

Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 16 (cont)

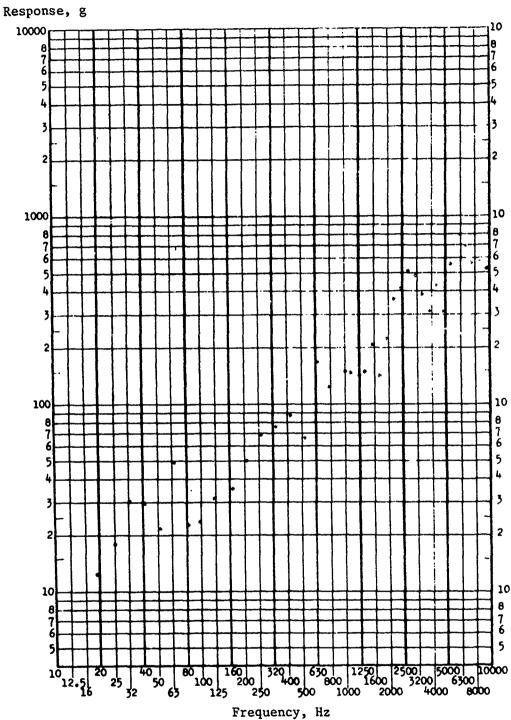




Frequency, Hz

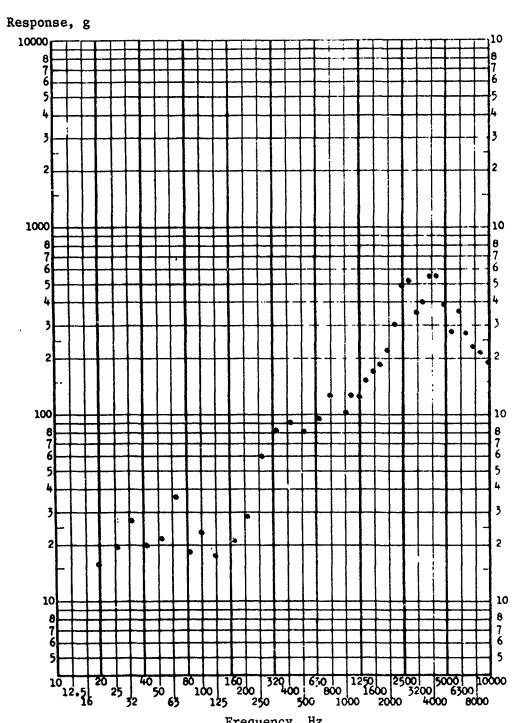
Bench Shock Test - Stage II/III Separation, Run 16 Measurement No. 5 - Tangential axis longeron near station 117

Figure 16 (cont)



Bench Shock Test - Stage II/III Separation, Run 16 Measurement No. 6 - Radial axis longeron near station 117

Figure 16 (cont)

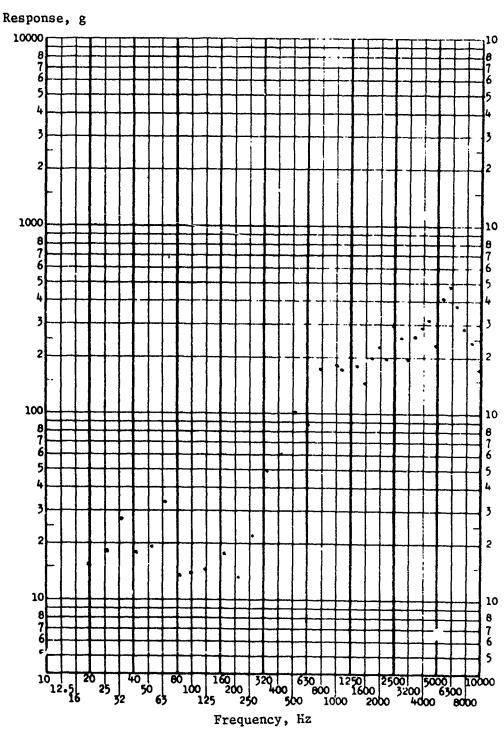


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 16

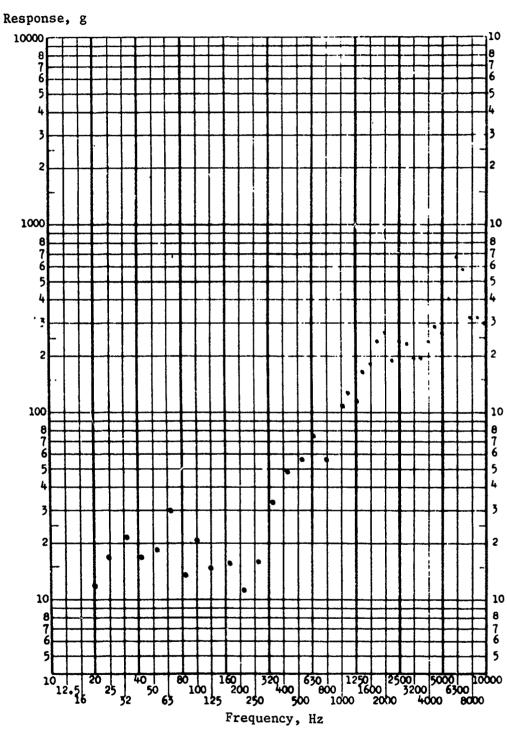
Measurement No. 7 - Longitudinal axis longeron near
station 77

Figure 16 (cont)



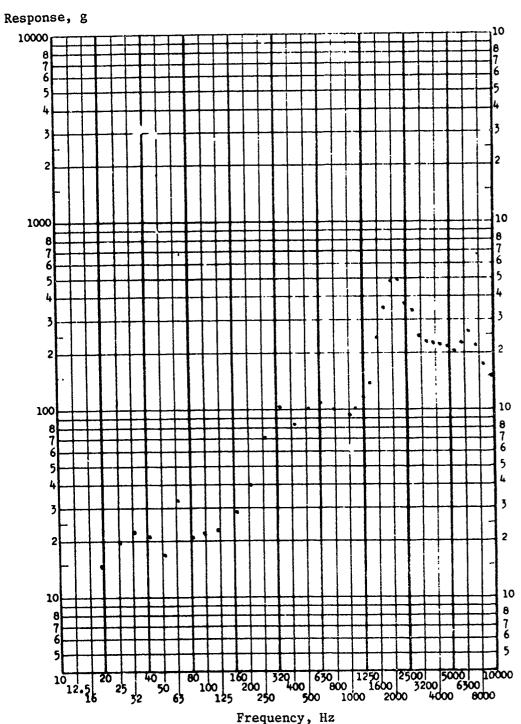
Bench Shock Test - Stage II/III Separation, Run 16 Measurement No. 8 - Tangential axis longeron near station 77

Figure 16 (cont)



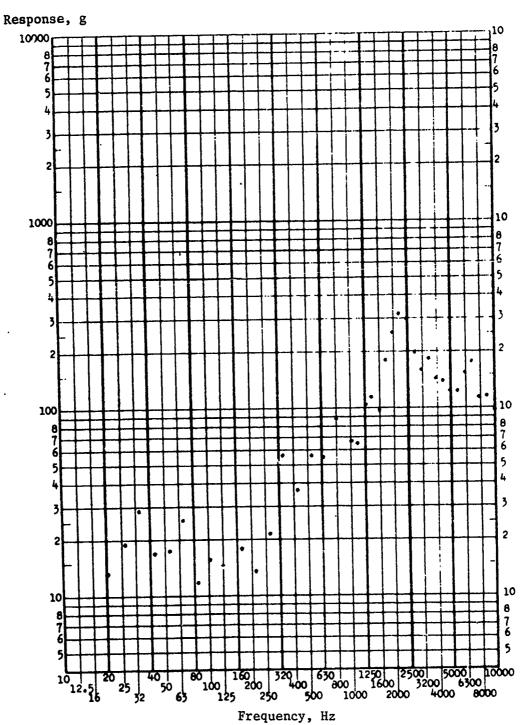
Bench Shock Test - Stage II/III Separation, Run 16 Measurement No. 9 - Radial axis longeron near station 77

Figure 16 (cont)



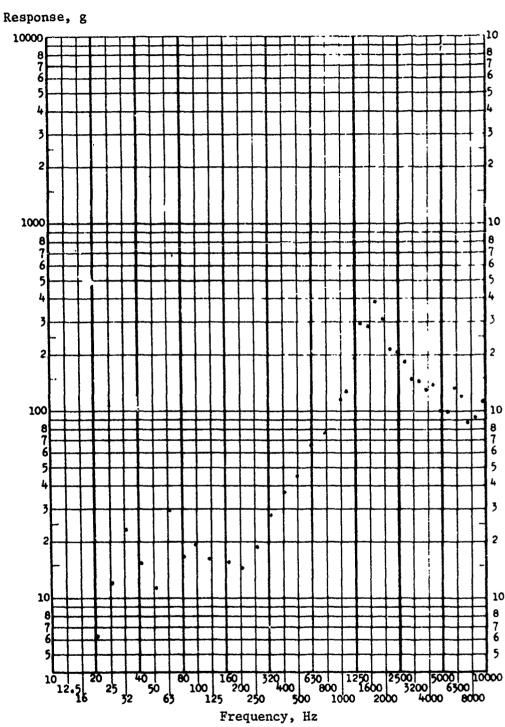
Bench Shock Test - Stage II/III Separation, Run 16 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 16 (cont)



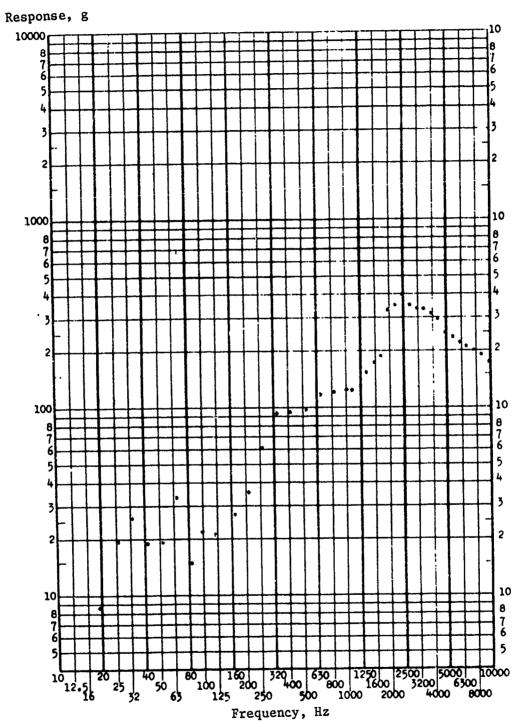
Bench Shock Test - Stage II/III Separation, Run 16 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 16 (cont)



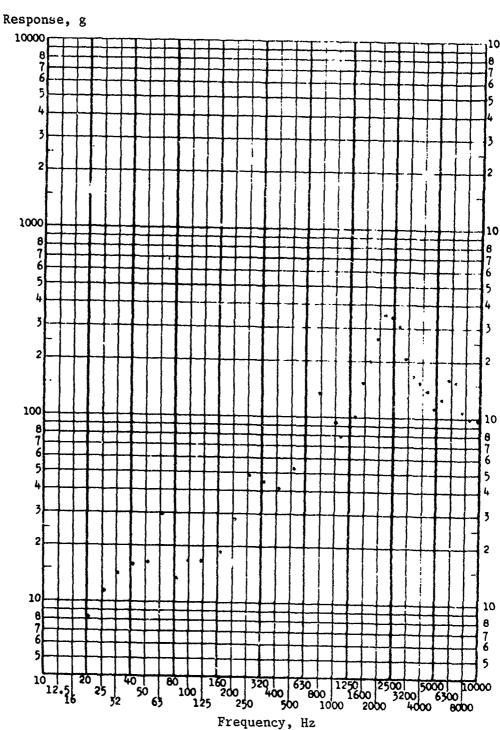
Bench Shock Test - Stage II/III Separation, Run 16 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 16 (cont)



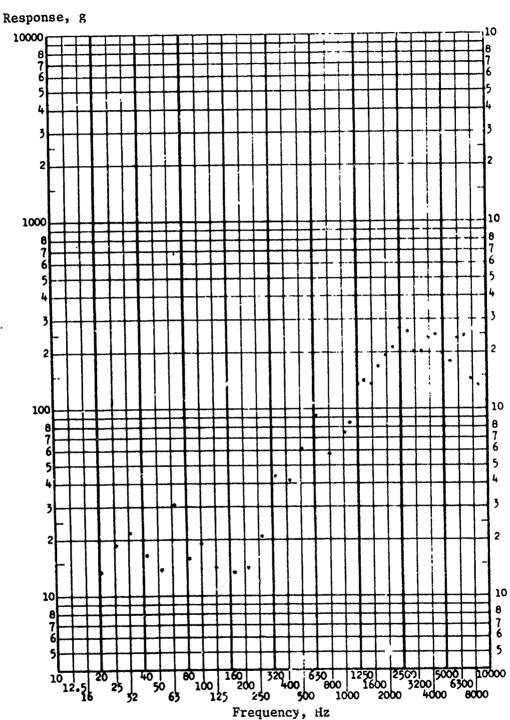
Bench Shock Test - Stage II/III Separation, Run 16 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 16 (cont)



Bench Shock Test - Stage II/III Separation, Run 16 Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 16 (cont)

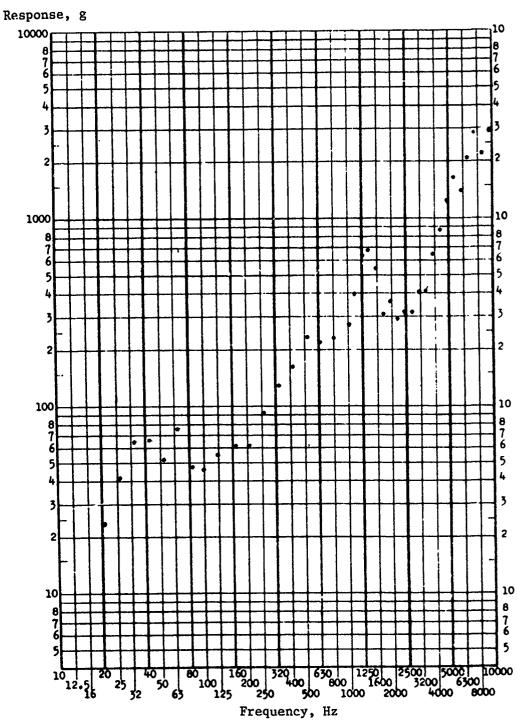


Bench Shock Test - Stage II/III Separation, Run 16 Measurement No. 15 - Lateral axis truss top near longeron attach point

Figure 16 (concl)

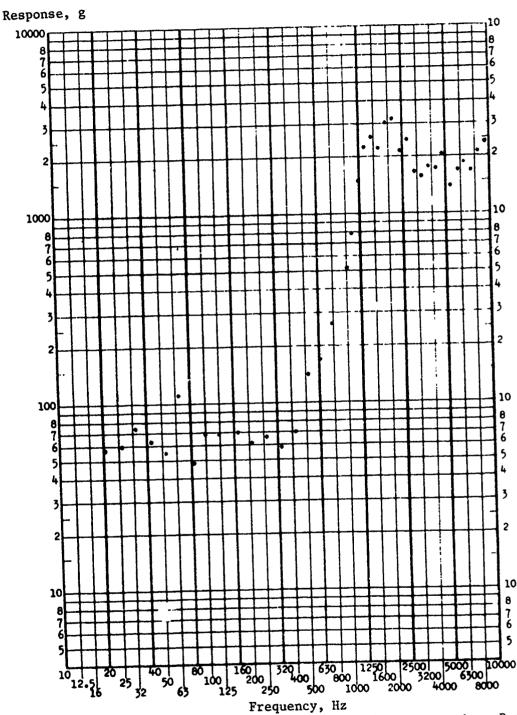
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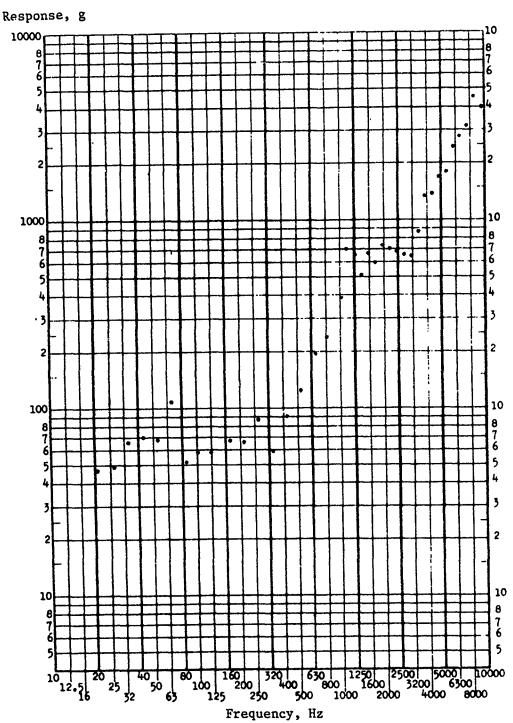
Bench Shock Test - Stage II/III Separation, Run 17 Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 17 Run 17 Shock Response Spectrum



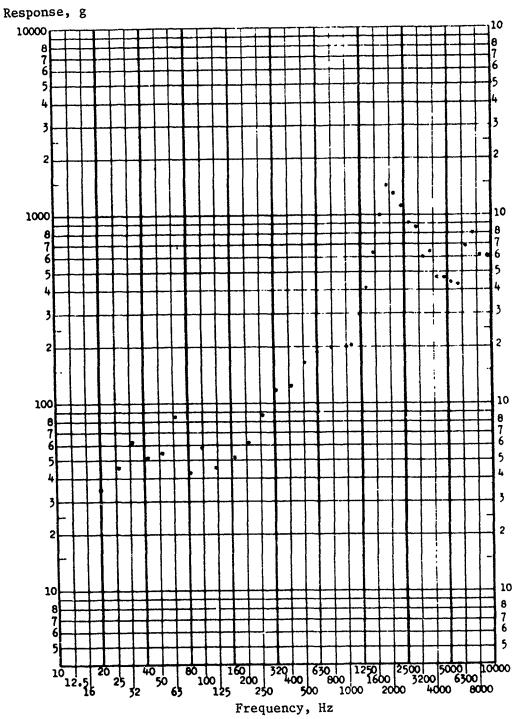
Bench Shock Test - Stage II/III Separation, Run 17 Measurement No. 2 - Tangential axis longeron near station 133

Figure 17 (cont)



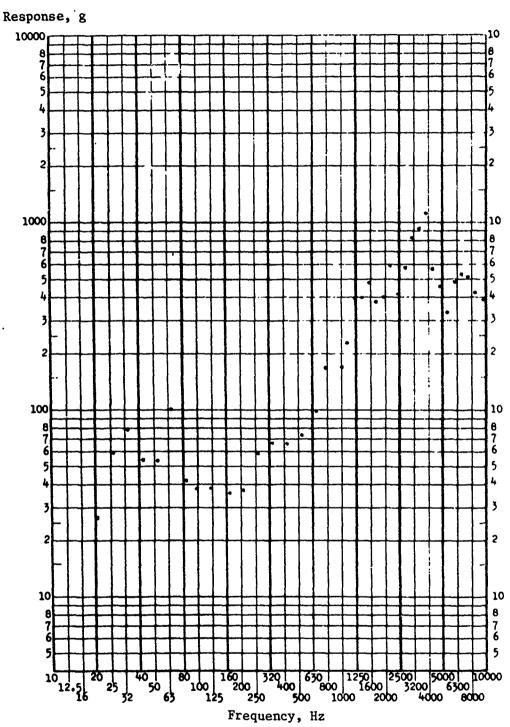
Bench Shock Test - Stage II/III Separation, Run 17 Measurement No. 3 - Radial axis longeron near station 133

Figure 17 (cont)



Bench Shock Test - Stage II/III Separation, Run 17 Measurement No. 4 - Longitudinal axis longeron near station 117

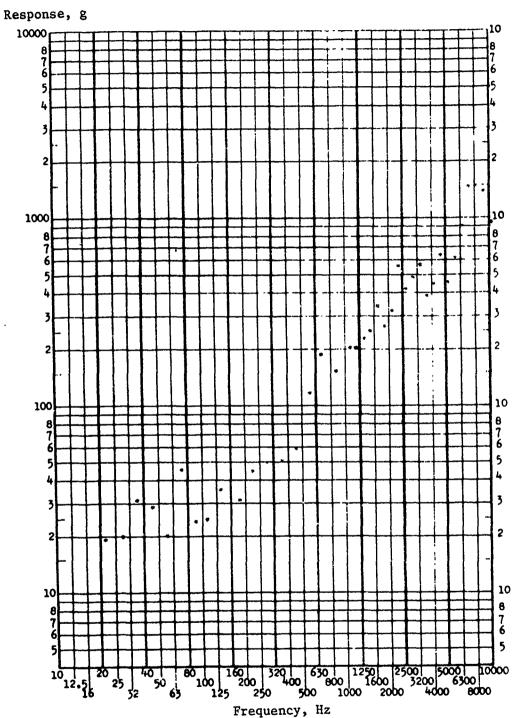
Figure 17 (cont)



Bench Shock Test - Stage II/III Separation, Run 17 Measurement No. 5 - Tangential axis longeron near station 117

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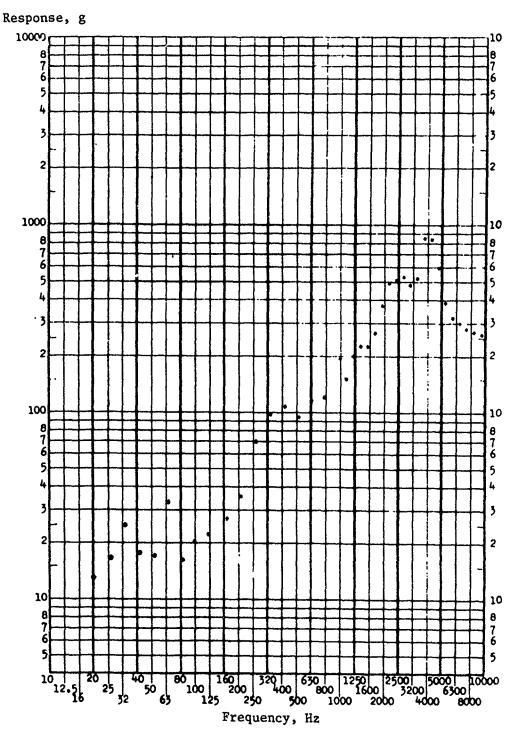
Figure 17 (cont)



Bench Shock Test - Stage II/III Separation, Run 1.7 Measurement No. 6 - Radial axis longeron near station 117

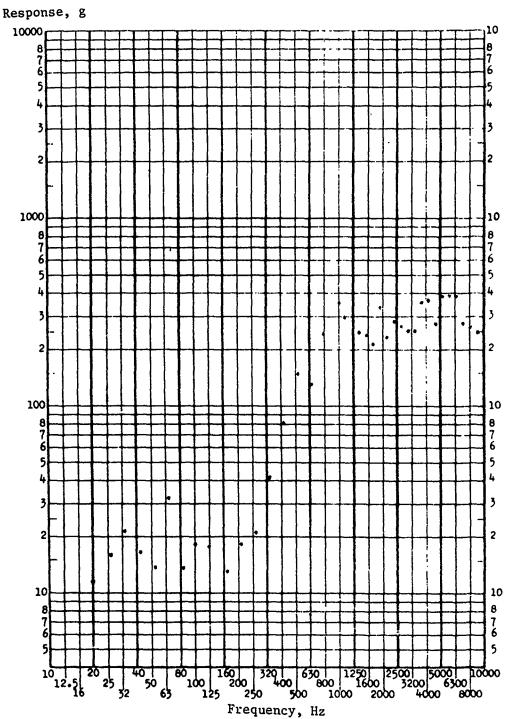
Figure 17 (cont)

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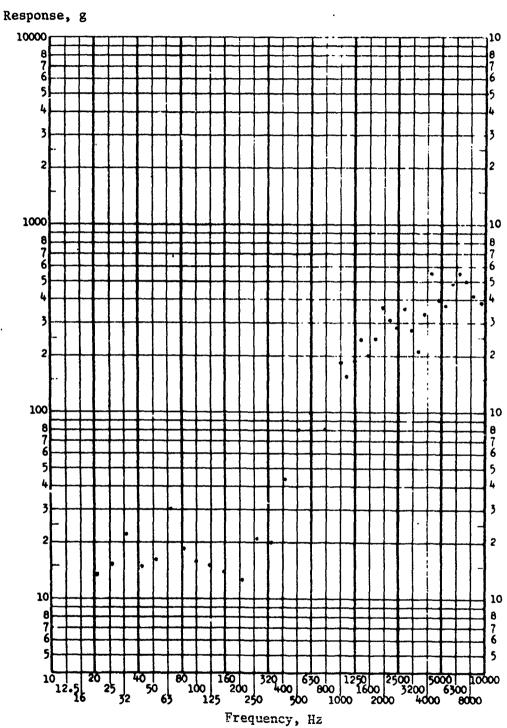
Bench Shock Test - Stage II/III Separation, Run 17 Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 17 (cont)



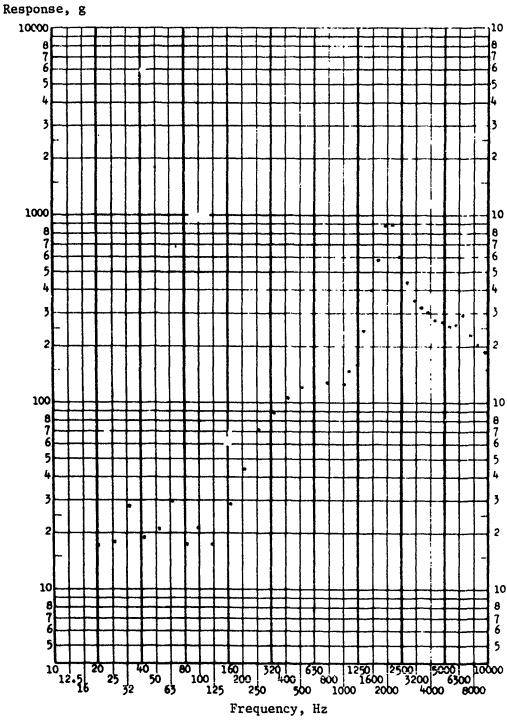
Bench Shock Test - Stage II/III Separation, Run 17 Measurement No. 8 - Tangential axis longeron near station 77

Figure 17 (cont)



Bench Shock Test - Stage II/III Separation, Run 17 Measurement No. 9 - Radial axis longeron near station 77

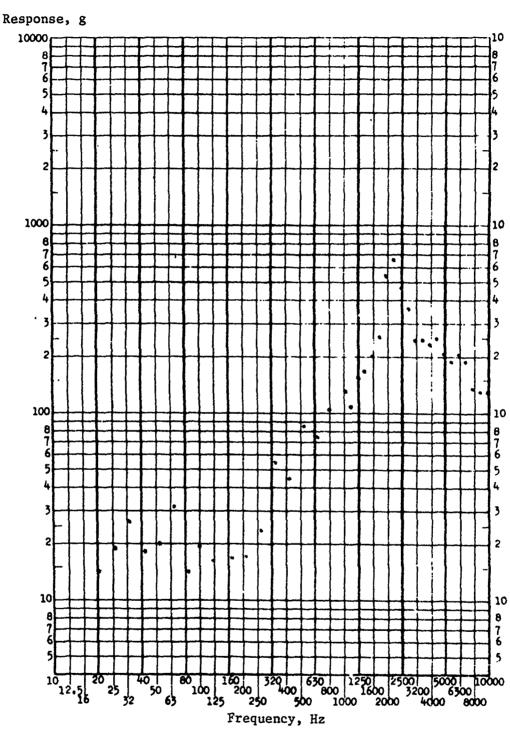
Figure 17 (cont)



Bench Shock Test - Stage II/III Separation, Run 17 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 17 (cont)

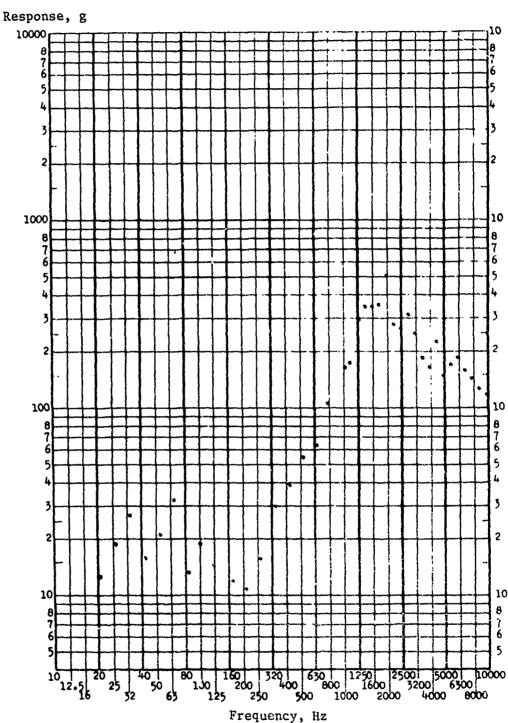
re an an electron and and the control of the contro



Bench Shock Test - Stage II/III Separation, Run 17 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

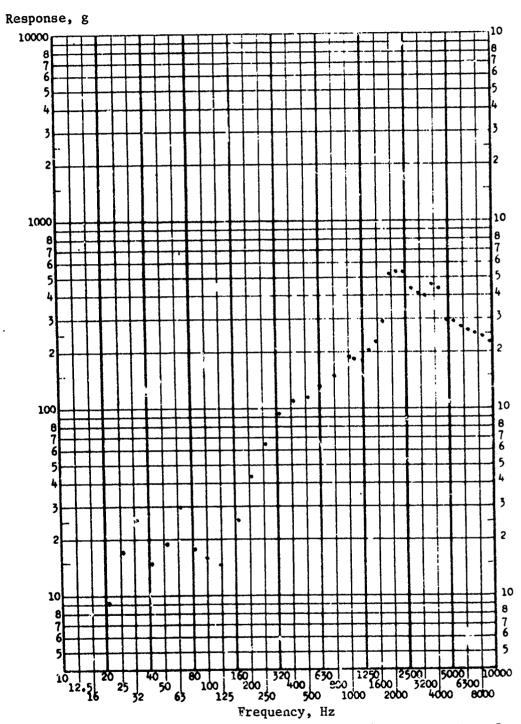
n incommendation of although in the commendation of the commendati

Figure 17 (cont)



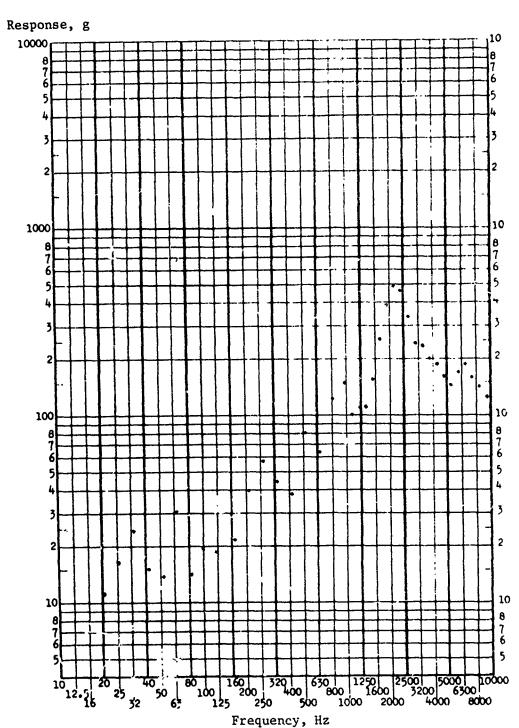
Bench Shock Test - Stage II/III Separation, Run 17 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 17 (cont)



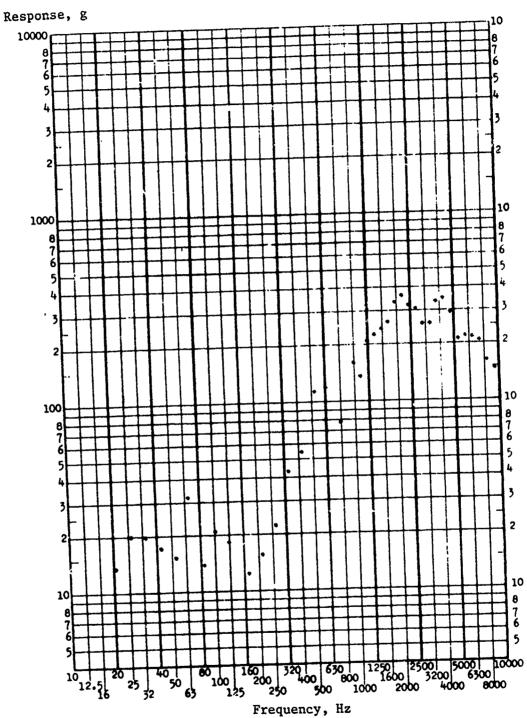
Bench Shock Test - Stage II/III Separation, Run 17 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 17 (cont)



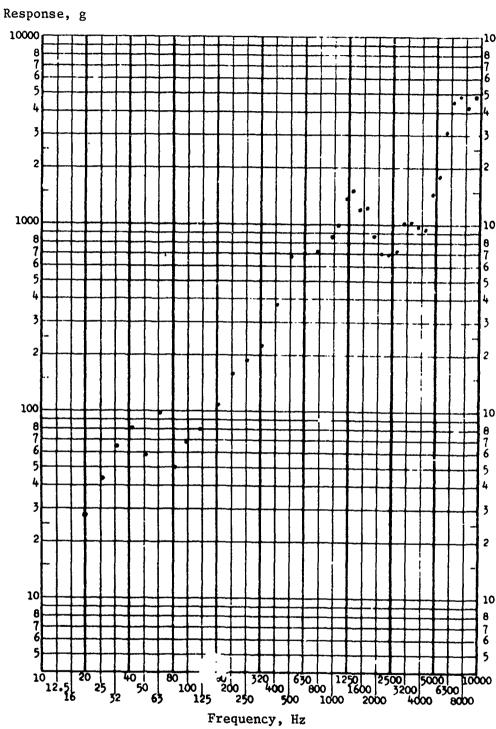
Bench Shock Test - Stage II/III Separation, Run 17 Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 17 (co.:t)



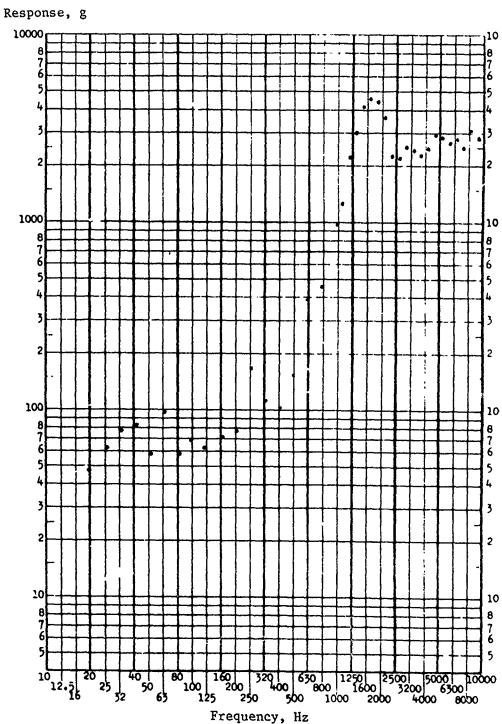
Bench Shock Test - Stage II/III Separation, Run 17
Measurement No. 15 - Lateral axis truss top nerr
longeron attach point

Figure 17 (concl)



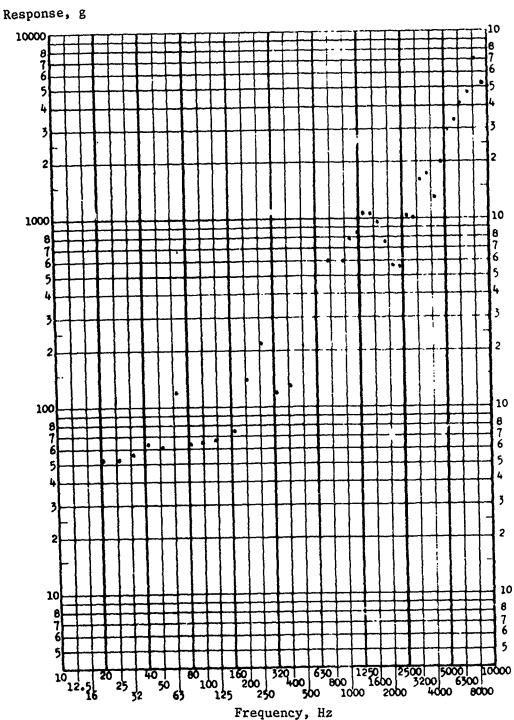
Bench Shock Test - Stage II/III Separation, Run 18 \_\_ Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 18 Run 18 Shock Response Spectrum



Bench Shock Test - Stage II/III Separation, Run 18 \_ Measurement No. 2 - Tangential axis longeron near station 133

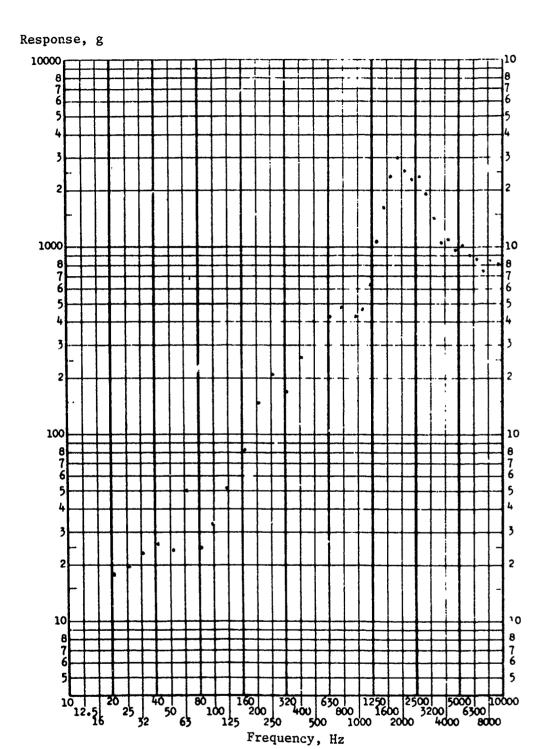
Figure 18 (cont)



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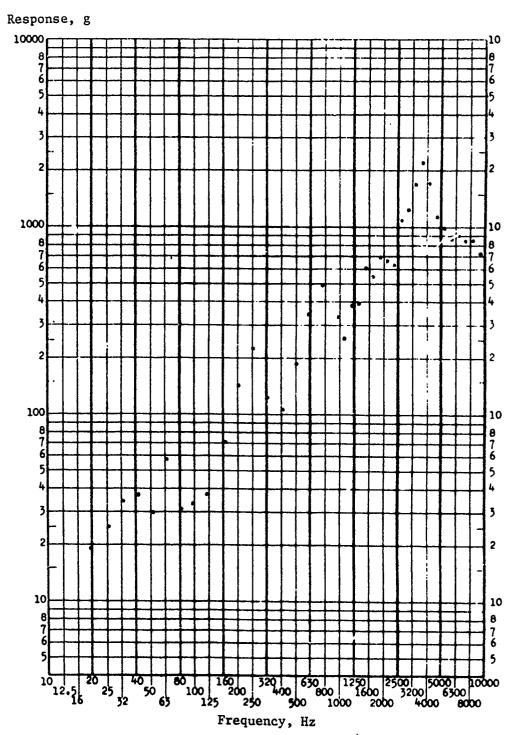
Bench Shock Test - Stage II/III Separation, Run 18 \_ Measurement No. 3 - Radial axis longeron near station 133

Figure 18 (cont)



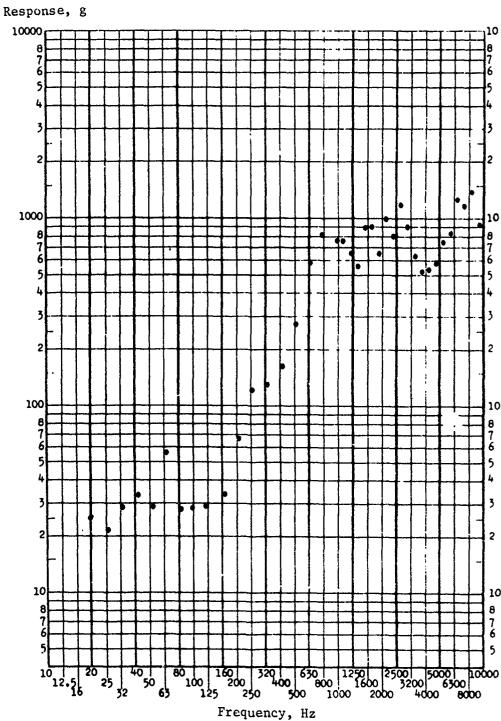
Bench Shock Test - Stage II/III Separation, Run 18\_ Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 18 (cont)



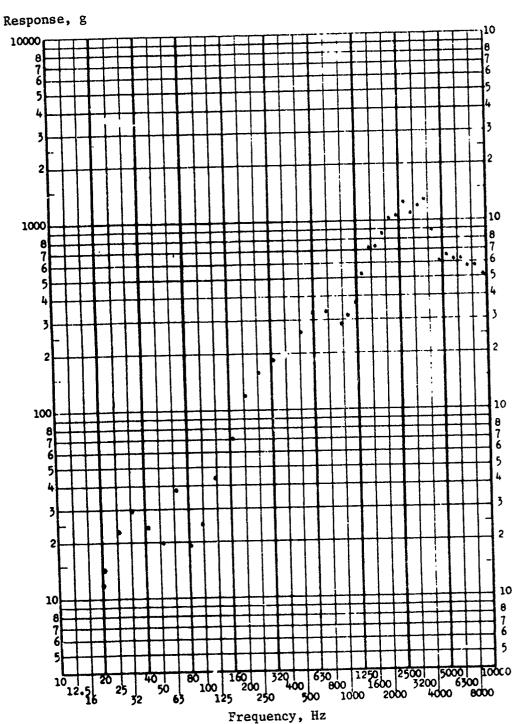
Bench Shock Test - Stage II/III Separation, Run 18 \_\_ Measurement No. 5 - Tangential axis longeron near station 117

Figure 19 (cont)



Bench Shock Test ~ Stage II/III Separation, Run 18 \_\_ Measurement No. 6 - Radial axis longeron near station 117

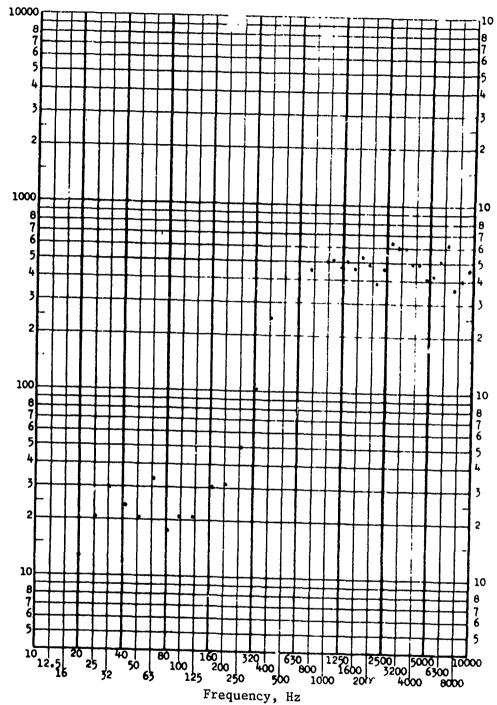
Figure 18 (cont)



Bench Shock Test - Stage II/III Separation, Run 18 \_\_ Measurement No. 7 - Longitudinal axis longeron near station 77

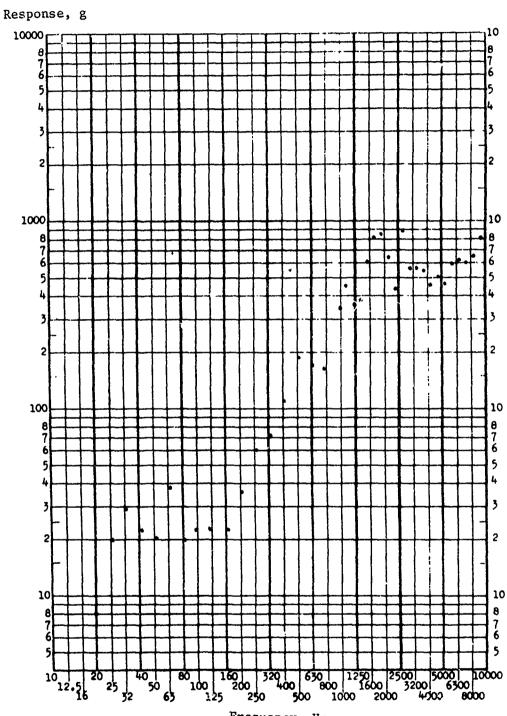
Figure 18 (cont)





Bench Shock Test - Stage II/III Separation, Run 18 \_ Measurement No. 8 - Tangential axis longeron near station 77

Figure 18 (cont)



Frequency, Hz

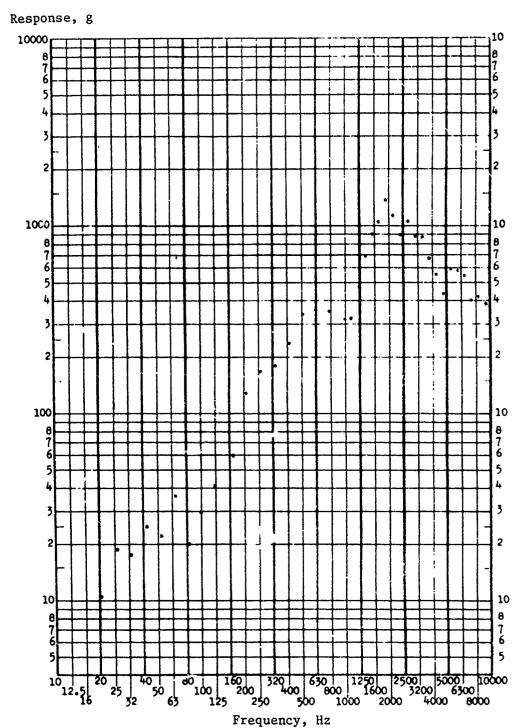
Bench Shock Test - Stage II/III Separation, Run 18 \_\_

Measurement No. 9 - Radial axis longeron near

station 77

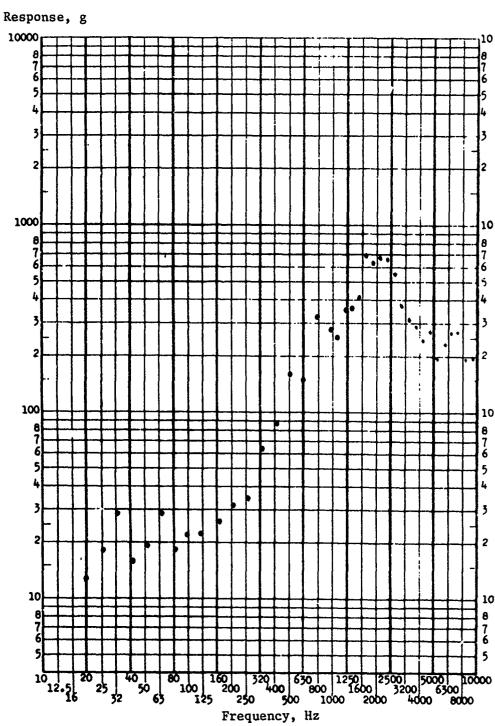
e de antigen de la Constantina de la c

Figure 18 (cont)



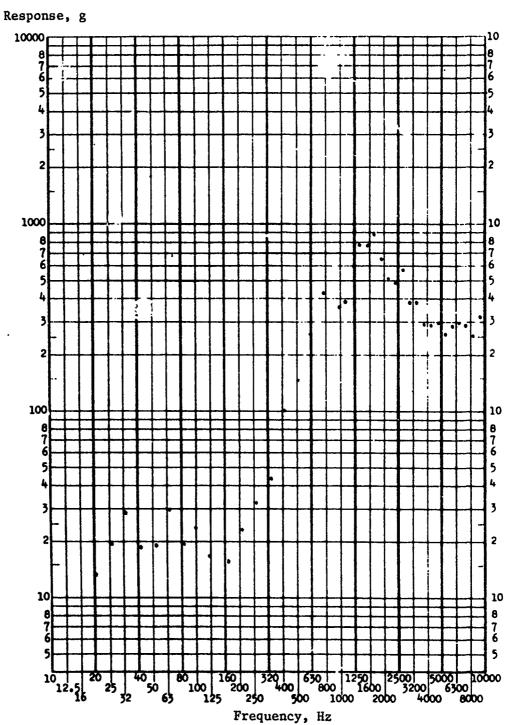
Bench Shock Test - Stage II/III Separation, Run 18 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 18 (cont)



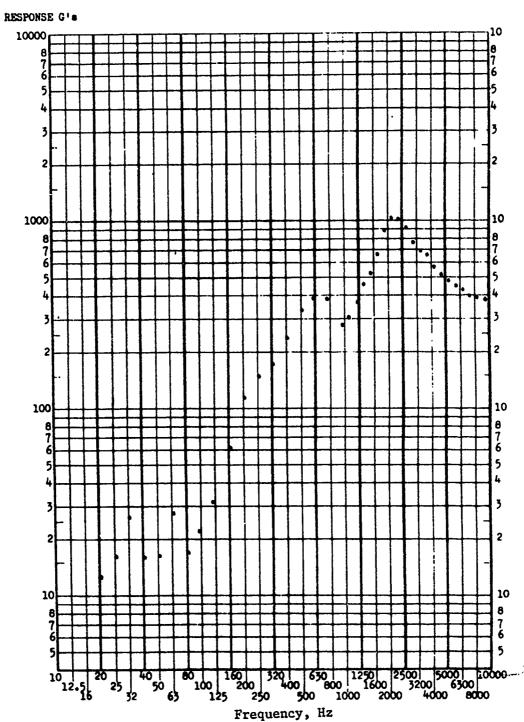
Bench Shock Test - Stage II/III Separation, Run 18 \_ Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 18 (cont)



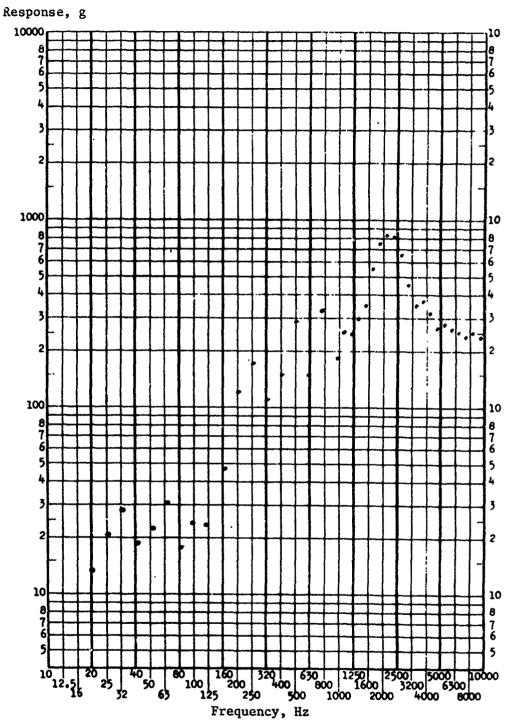
Bench Shock Test - Stage II/III Separation, Run 18 \_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 18 (cont)



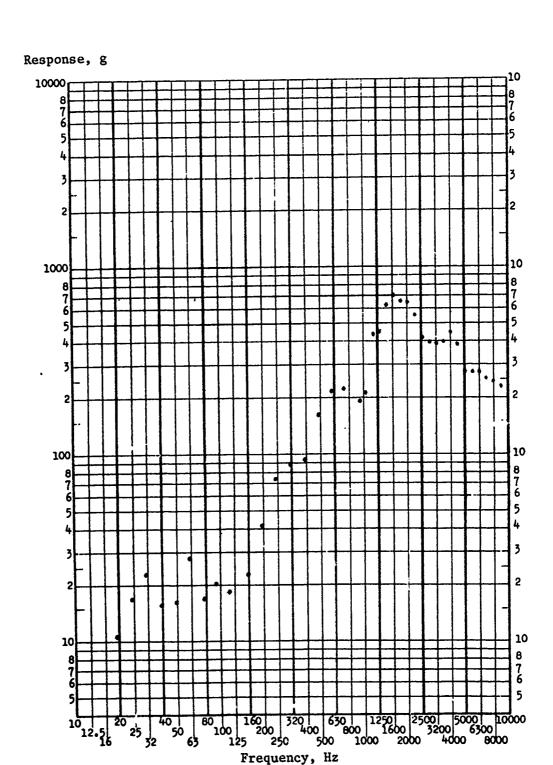
Bench Shock Test - Stage II/III Separation, Run 18 \_\_\_\_ Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 18 (cont)



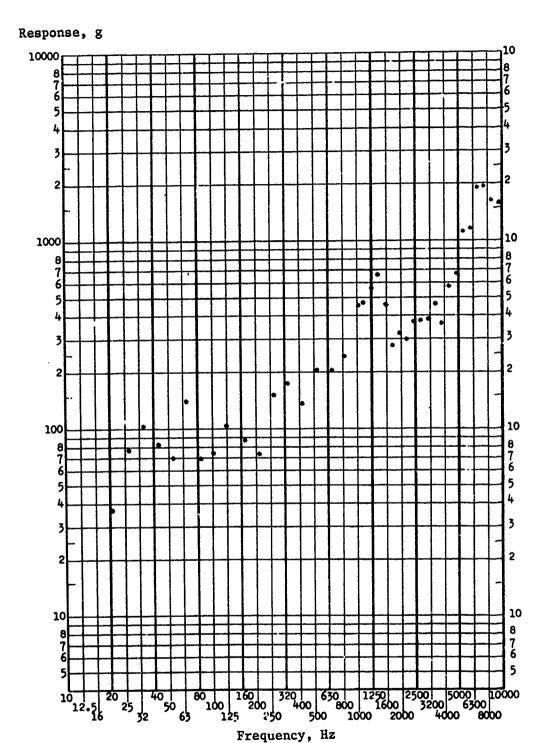
Bench Shock Test - Stage II/III Separation, Run 18 \_\_ Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 18 (cont)



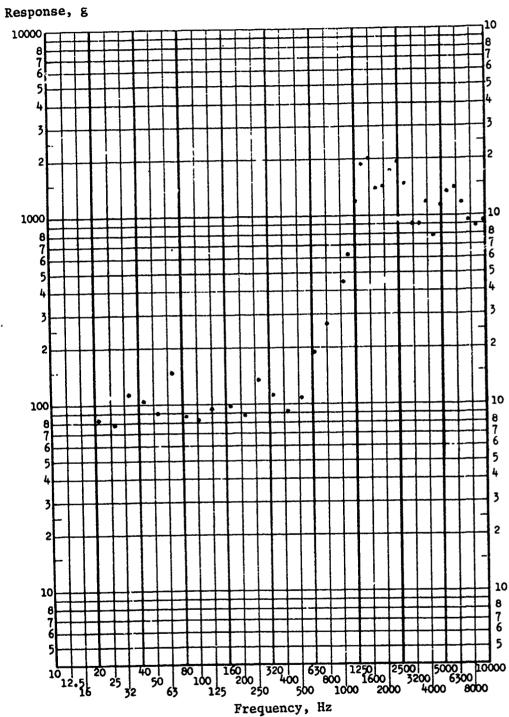
Bench Shock Test - Stage II/III Separation, Run 18 \_\_ Measurement No. 15 - Lateral axis truss top near longeron attach point

Figure 18 (concl)



Bench Shock Test - Stage II/III Separation, Run 19 Measurement No. 1 - Longitudinal axis longeron near station 133

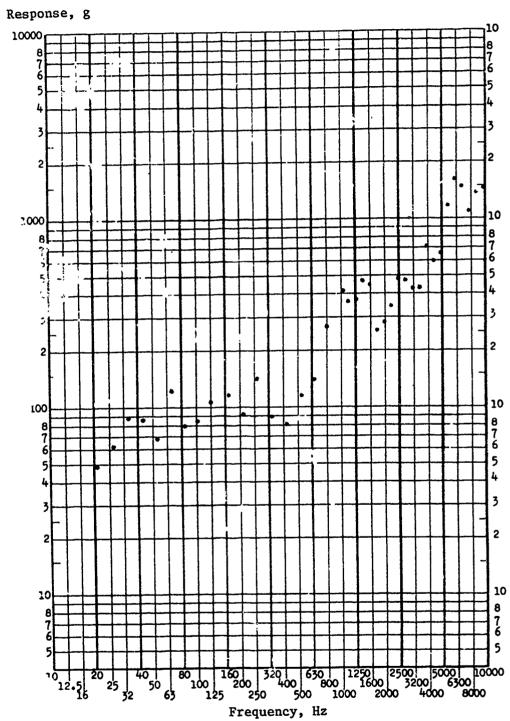
Figure 19 Run 19 Shock Response Spectrum



Bench Shock Test - Stage II/III Separation, Run 19 Measurement No. 2 - Tangential axis longeron near station 133

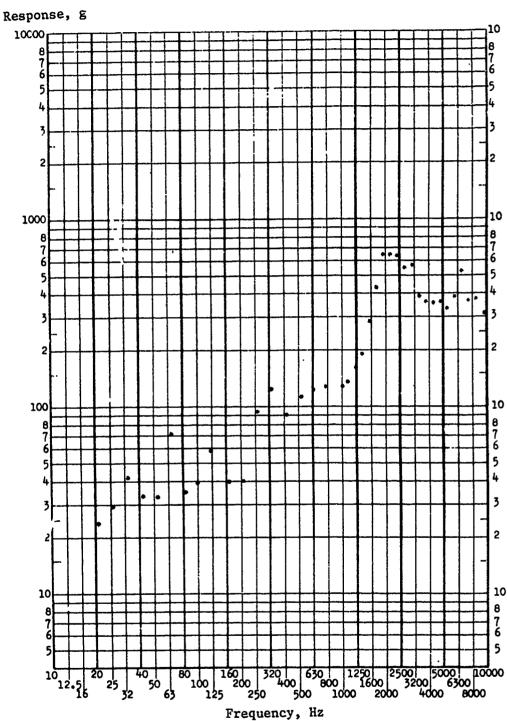
Figure 19 (cont)

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Bench Shock Test - Stage II/III Separation, Run 19 Measurement No. 3 - Radial axis longeron near station 133

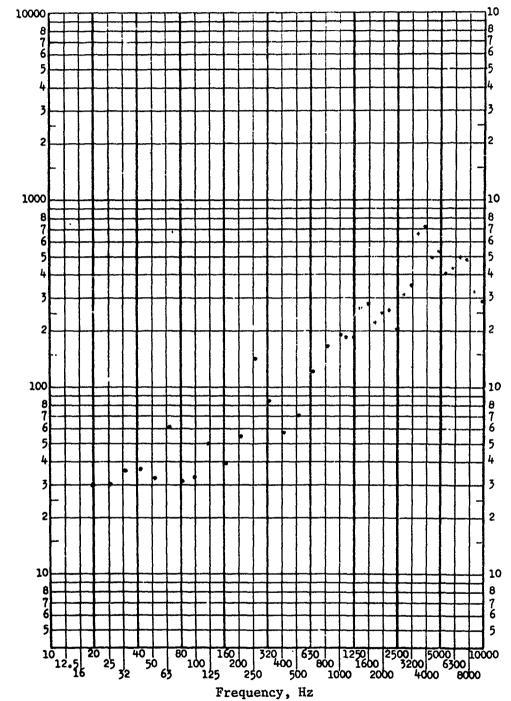
Figure 19 (cont)



Bench Shock Test - Stage II/III Separation, Run 19 Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 19 (cont)

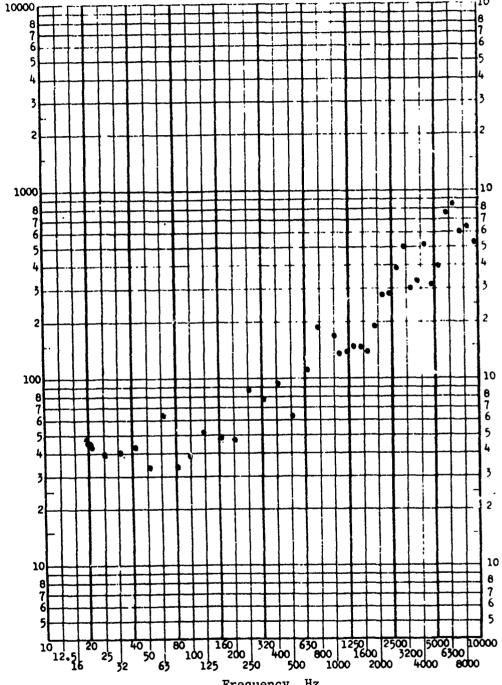




Bench Shock Test - Stage II/III Separation, Run 19 Measurement No. 5 - Tangential axis longeron near station 117

Figure 19 (cont)





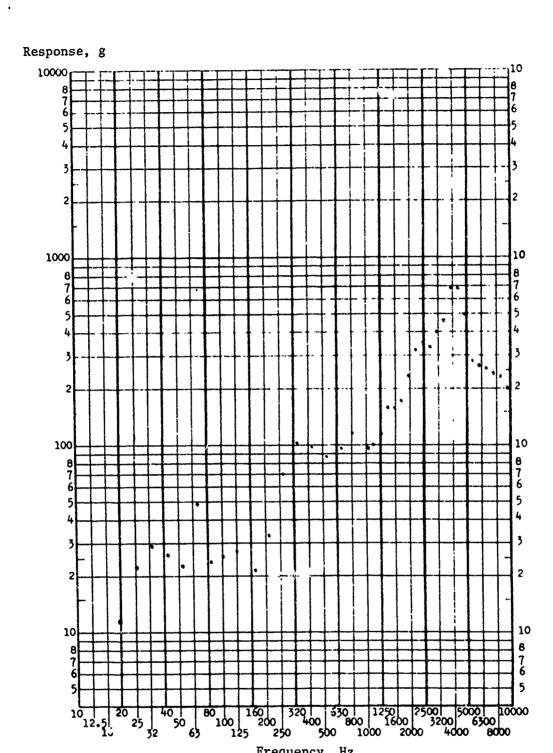
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 19

Measurement No. 6 - Radial axis longeron near
station 117

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Figure 19 (cont)

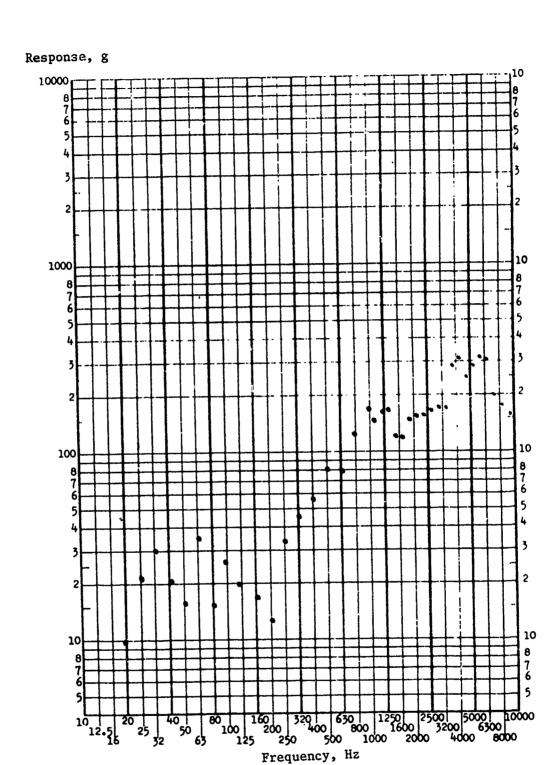


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 19

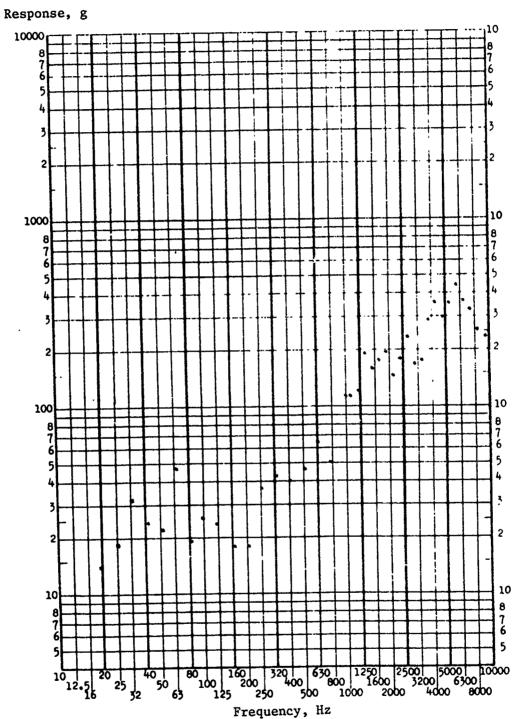
Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 19 (cont)



Bench Shock Test - Stage II/III Separation, Run 19 Measurement No. 8 - Tangential axis longeron near station 77

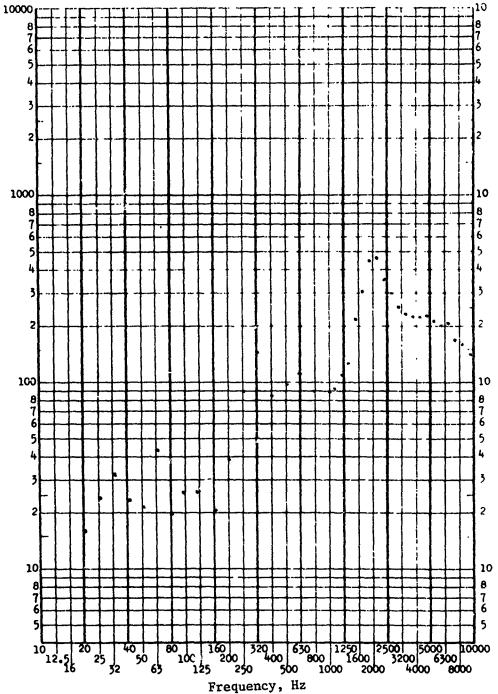
Figure 19 (cont)



Bench Shock Test - Stage II/III Separation, Run 19 Measurement No. 9 - Radial axis longeron near station 77

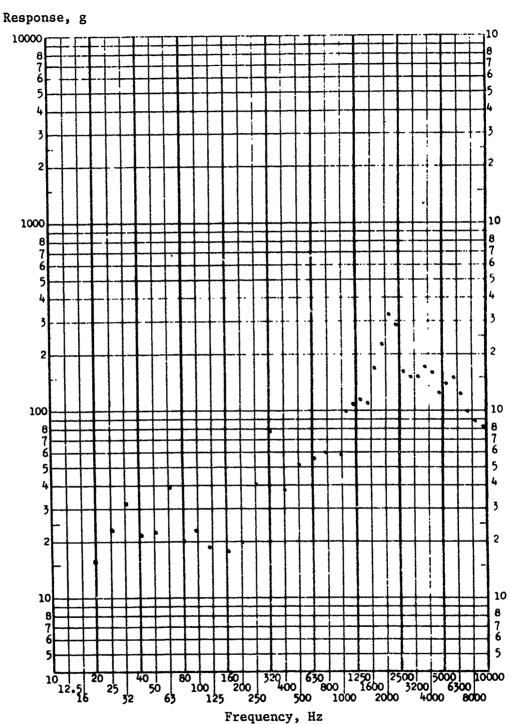
Figure 19 (cont)





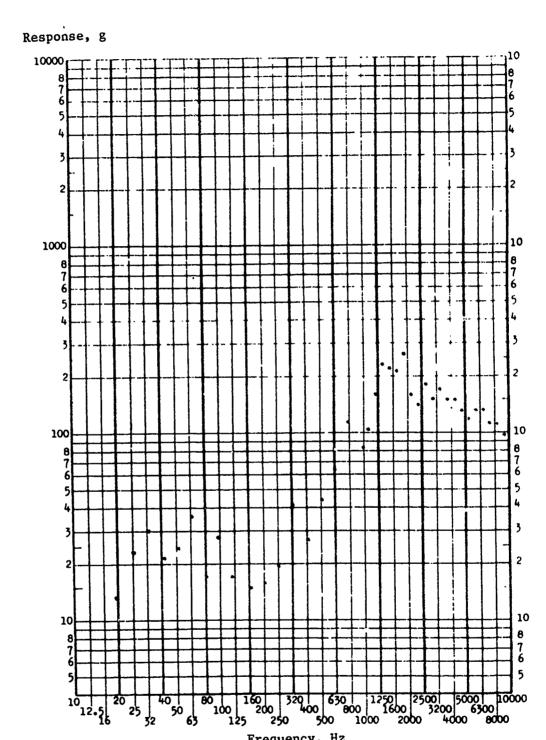
Bench Shock Test - Stage II/III Separation, Run 19 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 19 (cont)



Bench Shock Test - Stage II/III Separation, Run 19
Measurement No. 11 - Lateral axis truss bottom near
station 114 attach point

Figure 19 (cont)



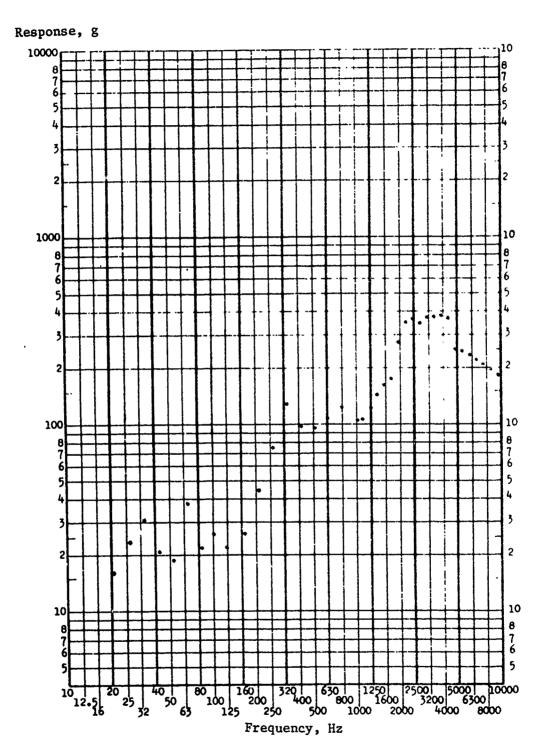
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 19

Measurement No. 12 - Vertical axis truss bottom

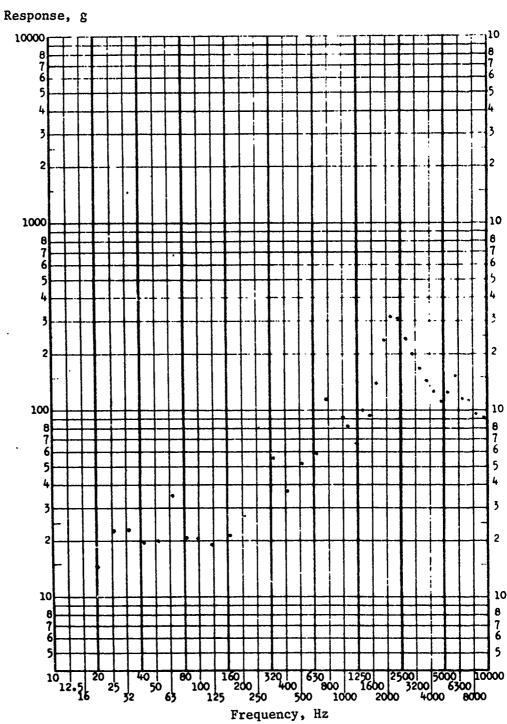
near station 114 attach point

Figure 19 (cont)



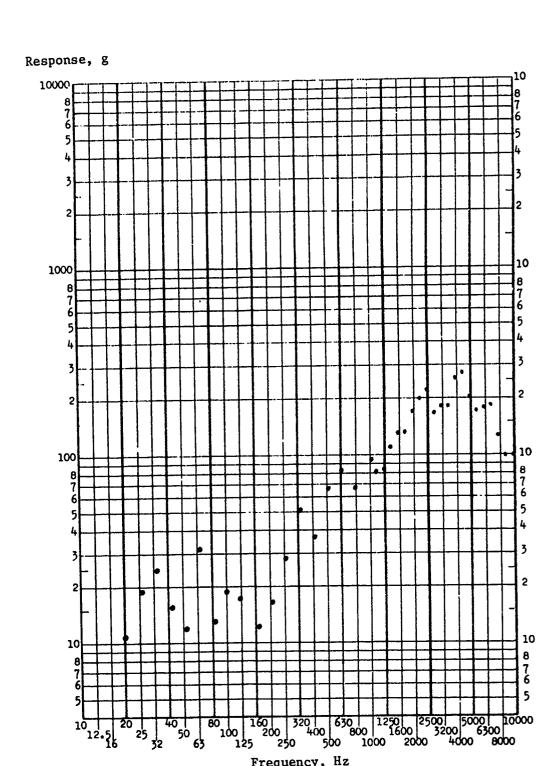
Bench Shock Test - Stage II/III Separation, Run 19 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 19 (cont)



Bench Shock Test - Stage II/III Separation, Run 19 Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 19 (cont)



Frequency, Hz

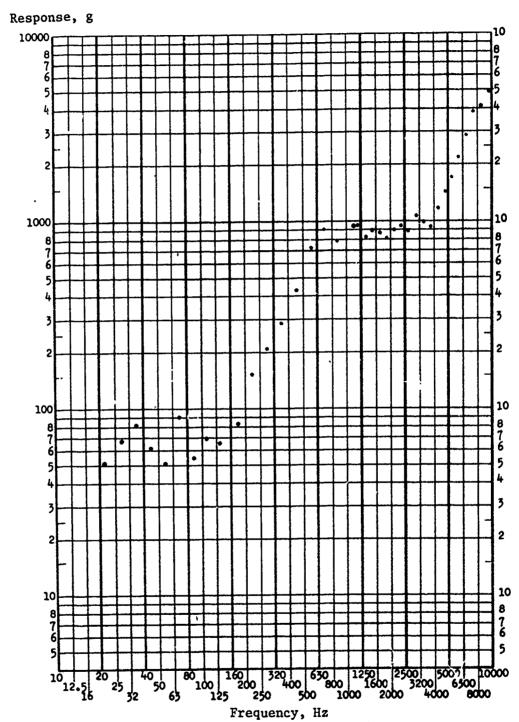
Bench Shock Test - Stage II/III Separation, Run 19

Measurement No. 15 - Lateral axis truss top near

longeron attach point

Figure 19 (concl)

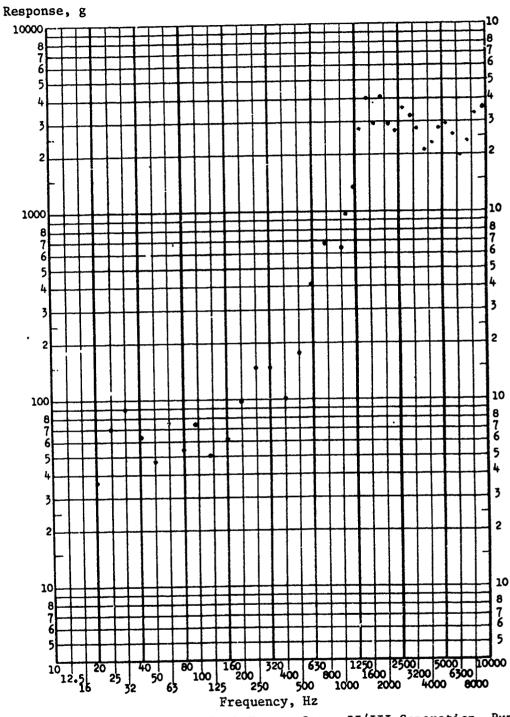
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Bench Shock Test - Stage II/III Separation, Run 20 \_\_ Measurement No. 1 - Longitudinal axis longeron near station 133

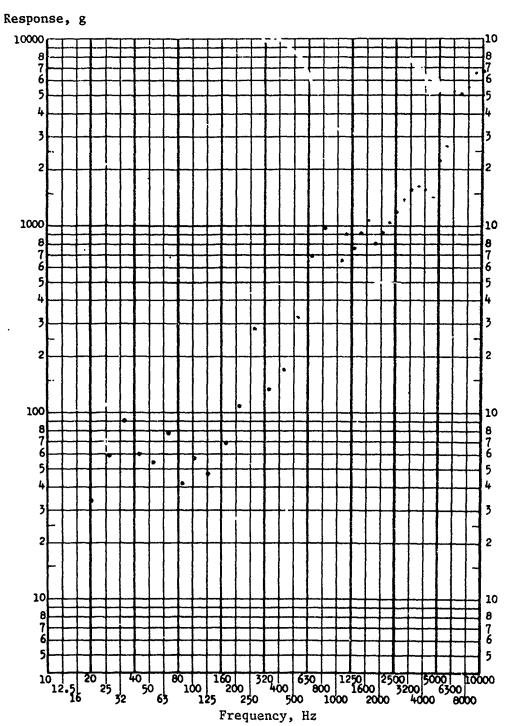
Figure 20 Run 20 Shock Response Spectrum

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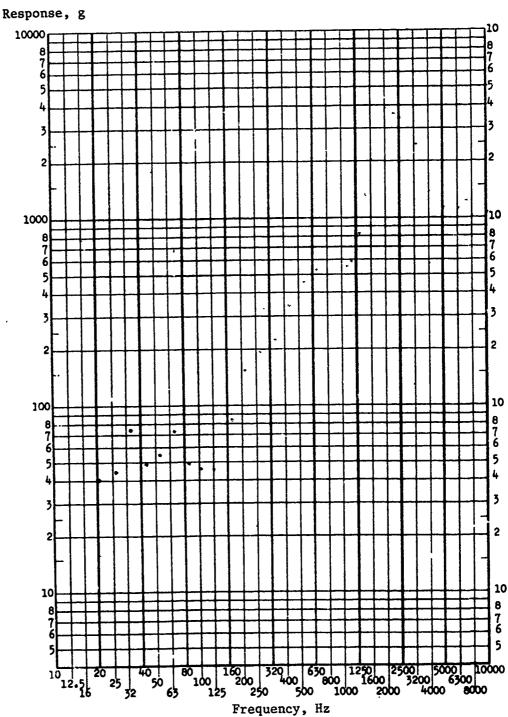
Bench Shock Test - Stage II/III Separation, Run 20 \_\_ Measurement No. 2 - Tangential axis longeron near station 133

Figure 20 (cont)



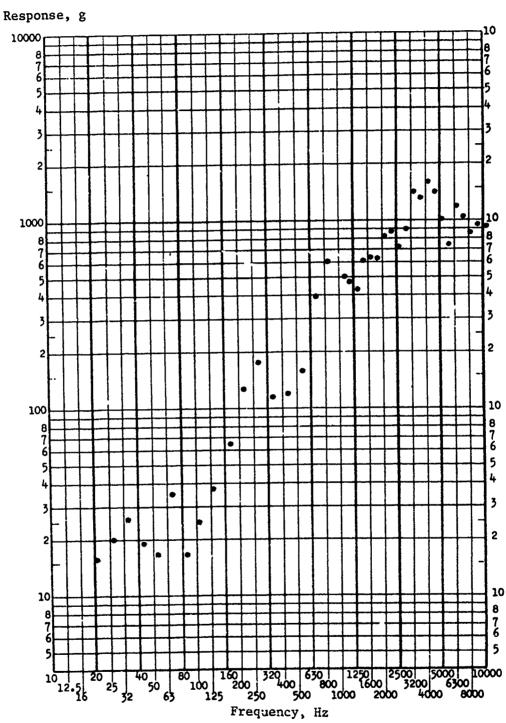
Bench Shock Test - Stage II/III Separation, Run 20 \_\_\_ Measurement No. 3 - Radial axis longeron near station 133

Figure 20 (cont)



Bench Shock Test - Stage II/III Separation, Run 20 \_\_ Measurement No. 4 - Longitudinal axis longeron near station 117

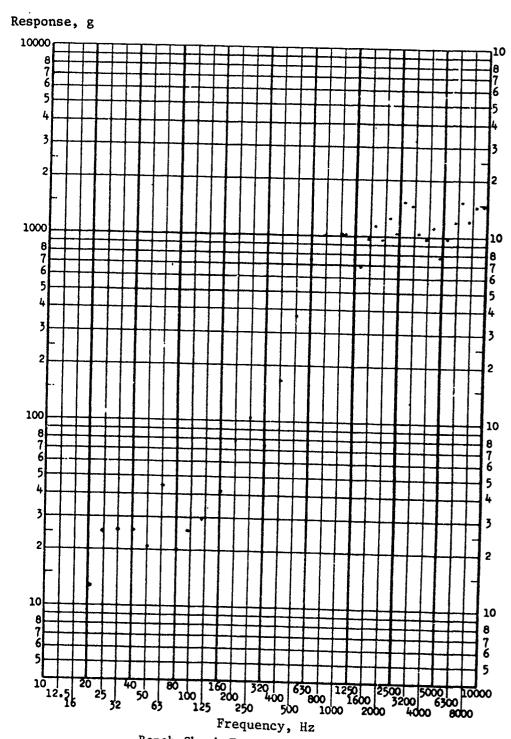
Figure 20 (cont)



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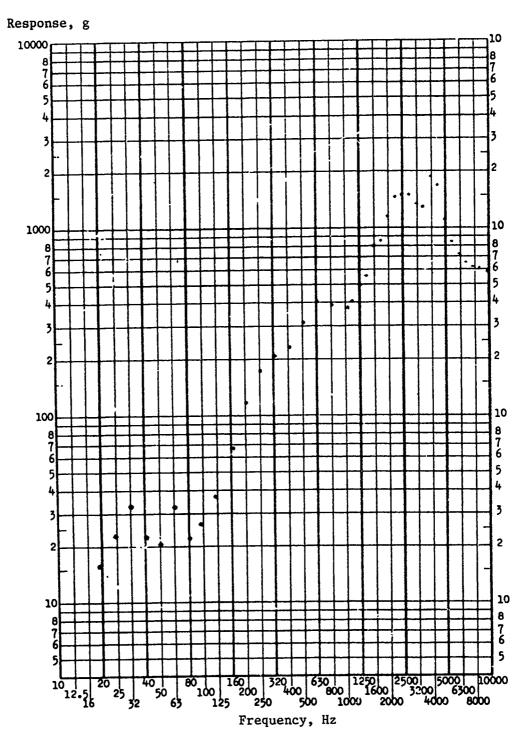
Bench Shock Test - Stage II/III Separation, Run 20 \_\_ Measurement No. 5 - Tangential axis longeron near station 117

Figure 20 (cont)



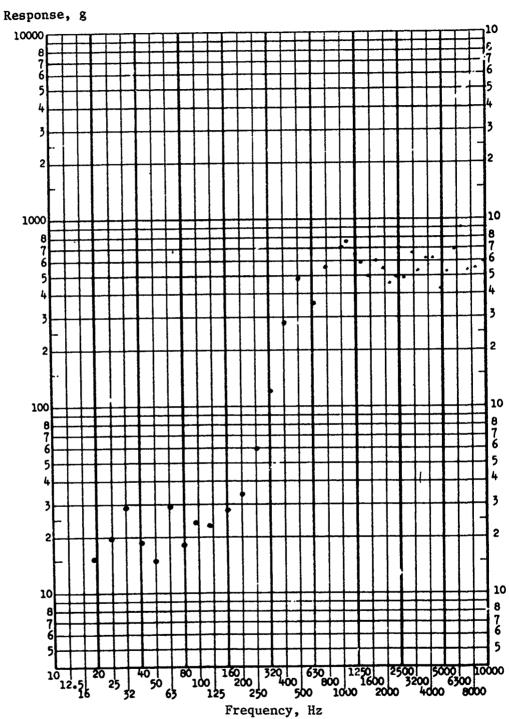
Bench Shock Test - Stage II/III Separation, Run 20 Measurement No. 6 - Radial axis longeron near station 117

Figure 20 (cont)



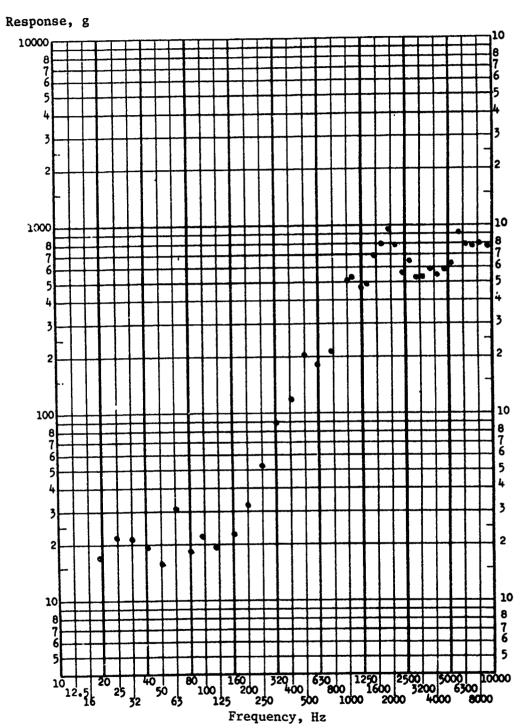
Bench Shock Test - Stage II/III Separation, Run 20 \_\_ Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 20 (cont)



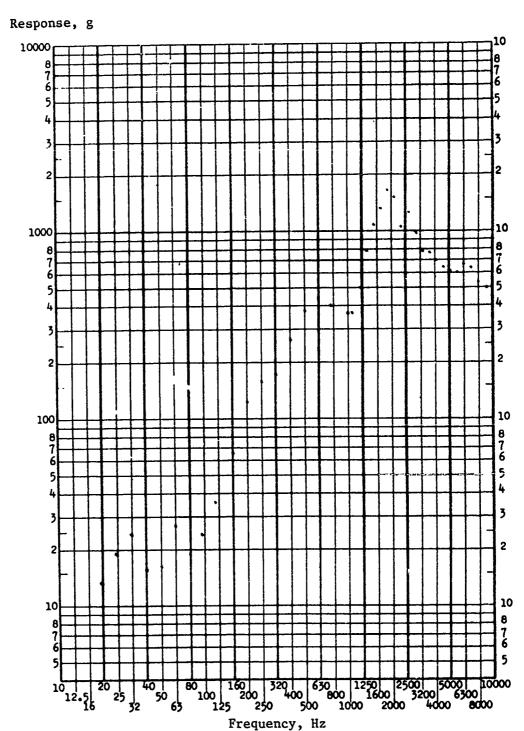
Bench Shock Test - Stage II/III Separation, Run 20\_Measurement No. 8 - Tangential axis longeron near station 77

Figure 20 (cont)



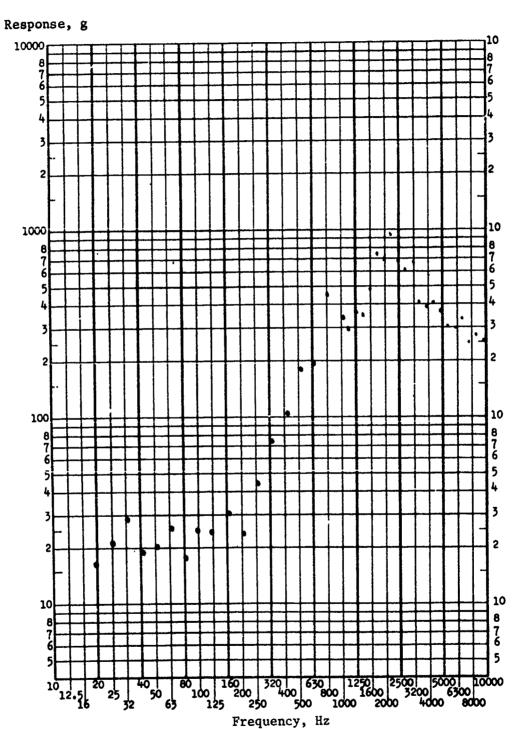
Bench Shock Test - Stage II/III Separation, Run 20 \_ Measurement No. 9 - Radial axis longeron near station 77

Figure 20 (cont)



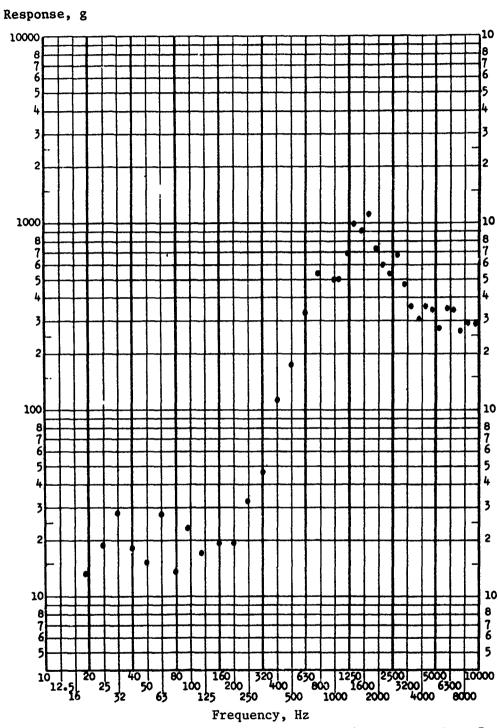
Bench Shock Test - Stage II/III Separation, Run 20 \_\_ Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 20 (cont)



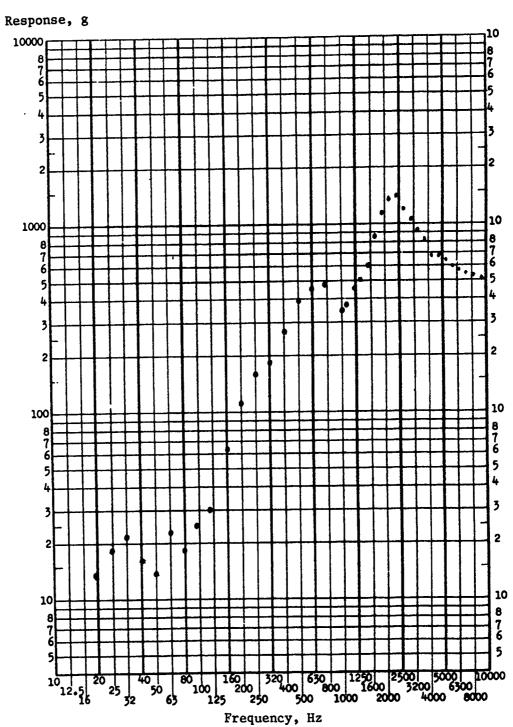
Bench Shock Test - Stage II/III Separation, Run 20 \_ Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 20 (cont)



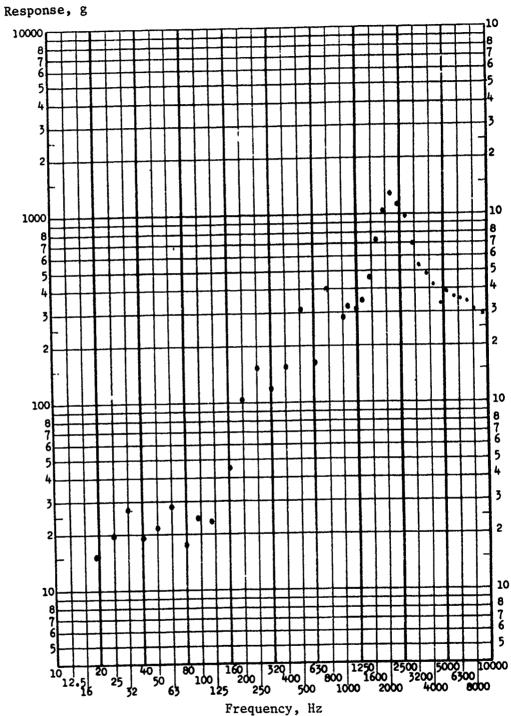
Bench Shock Test - Stage II/III Separation, Run 20 \_\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 20 (cont)



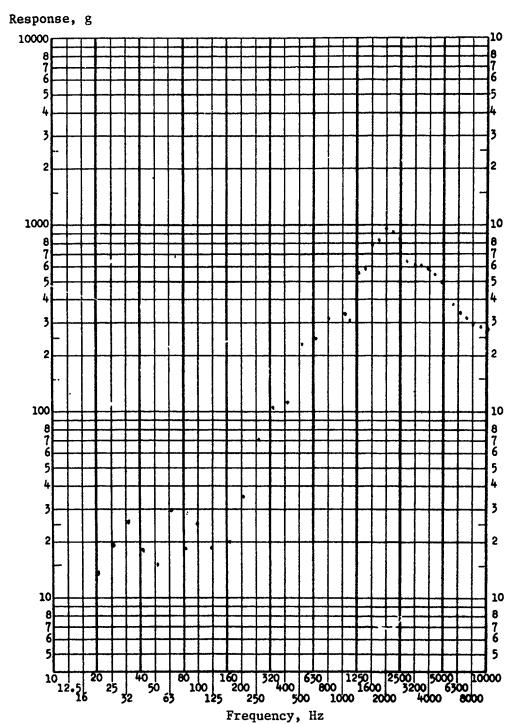
Bench Shock Test - Stage II/III Separation, Run 20 \_\_ Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 20 (cont)



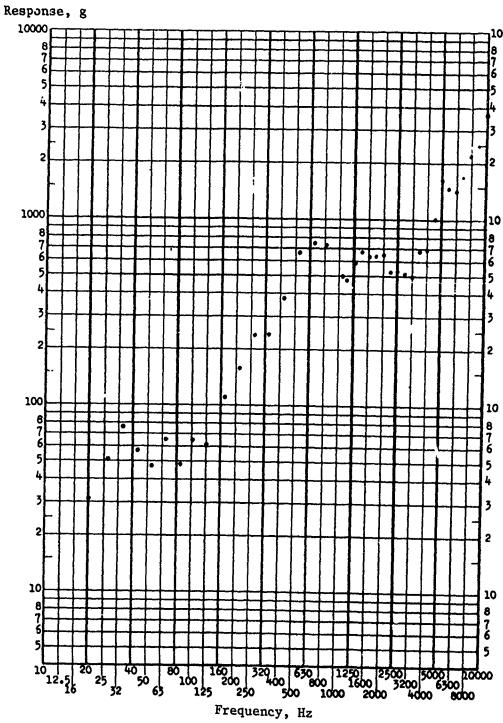
Bench Shock Test - Stage II/III Separation, Run 20 \_ Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 20 (cont)



Bench Shock Test - Stage II/III Separation, Run 20 \_\_ Measurement No. 15 - Lateral axis truss top near longeron attach point

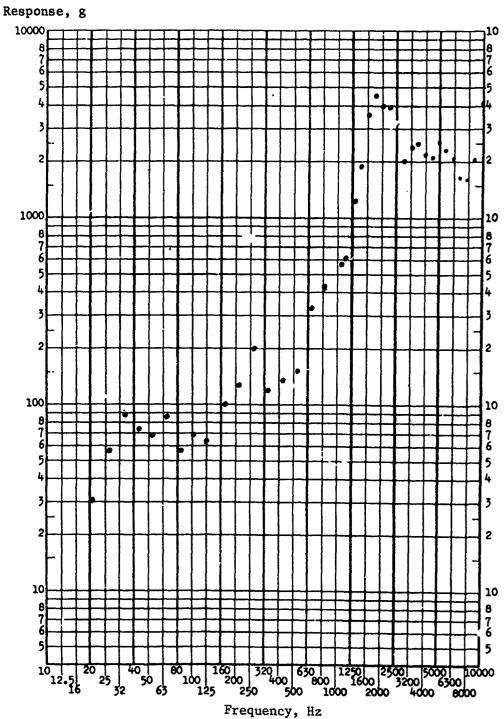
Figure 20 (concl)



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Bench Shock Test - Stage II/III Separation, Run 21 Measurement No. 1 - Longitudinal axis longeron near station 133

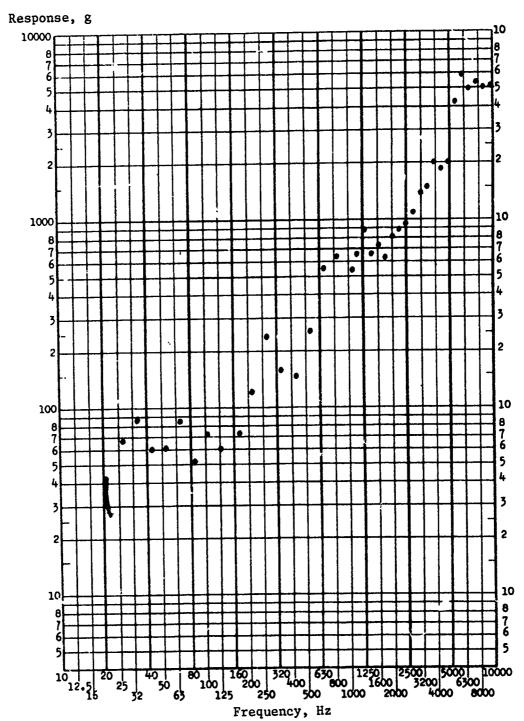
Figure 21 Run 21 Shock Response Spectrum



Bench Shock Test - Stage II/III Separation, Run 21 Measurement No. 2 - Tangential axis longeron near station 133

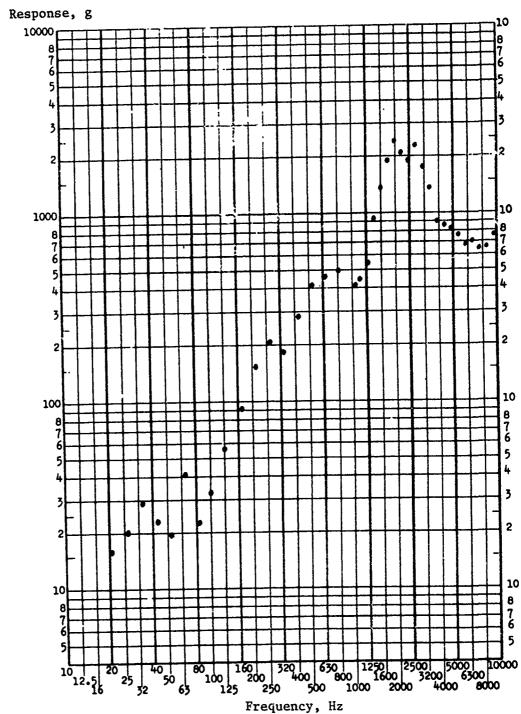
A STATE OF THE STA

Figure 21 (cont)



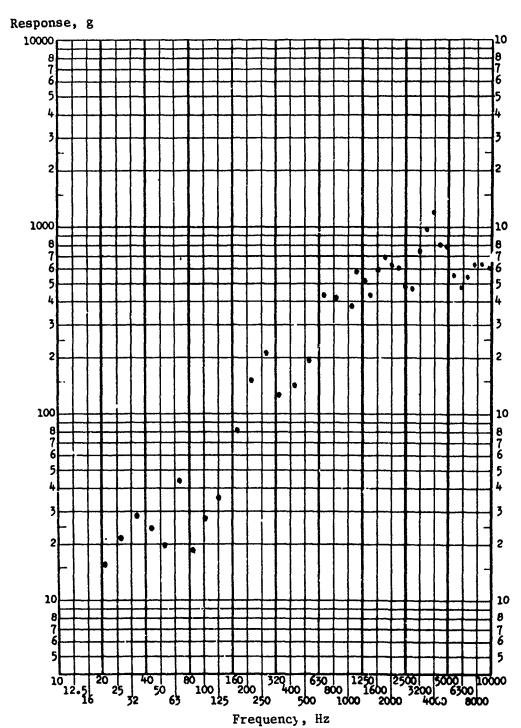
Bench Shock Test - Stage II/III Separation, Run 21 Measurement No. 3 - Radial axis longeron near station 133

Figure 21 (cont)



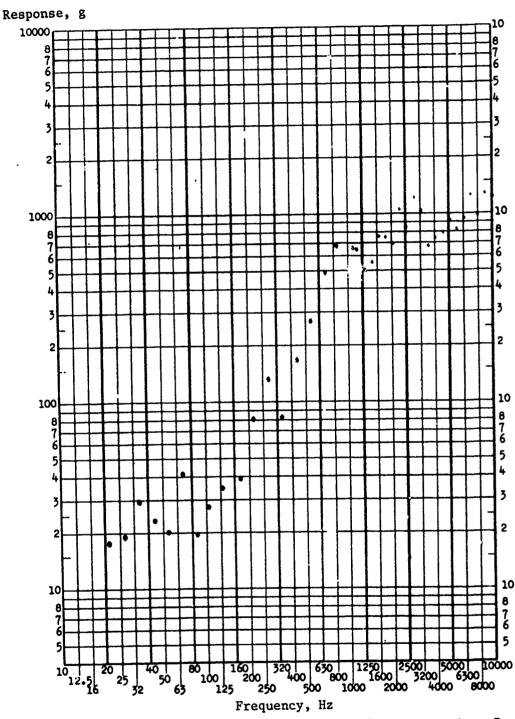
Bench Shock Test - Stage II/III Separation, Run 21 Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 21 (cont)



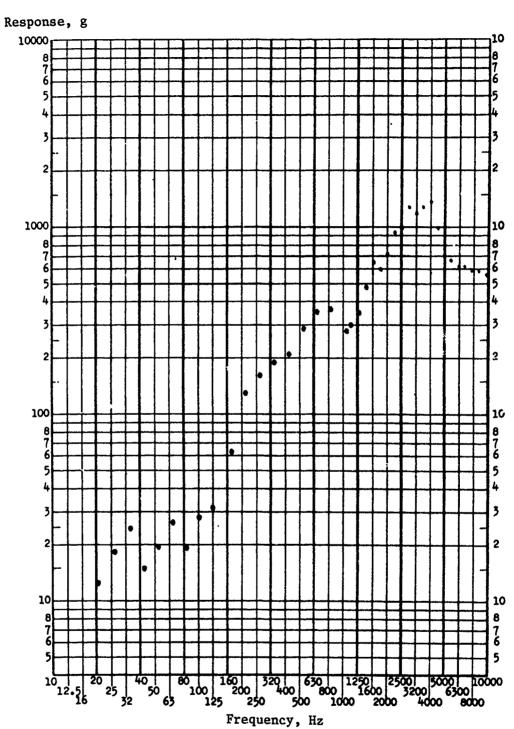
Bench Shock Test - Stage II/III Separation, Run 21 Measurement No. 5 - Tangential axis longeron near station 117

Figure 21 (cont)



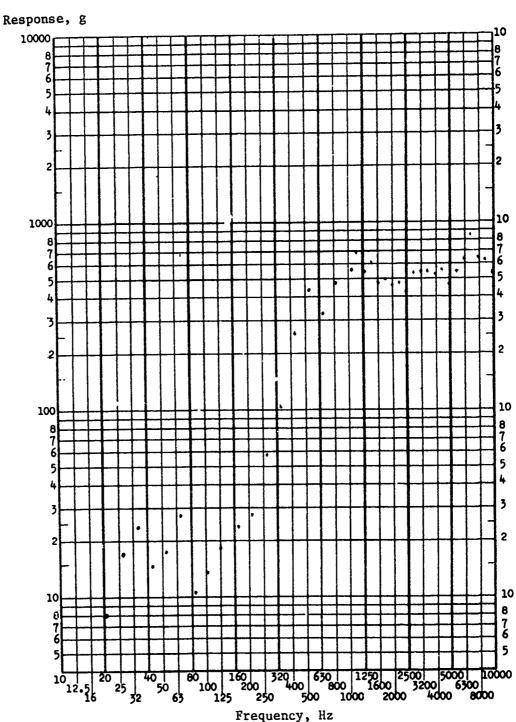
Bench Shock Test - Stage II/III Separation, Run 21 Measurement No. 6 - Radial axis longeron near station 117

Figure 21 (cont)



Bench Shock Test - Stage II/III Separation, Run 21 Measurement No. 7 - Longitudinal axis longeron near station 77

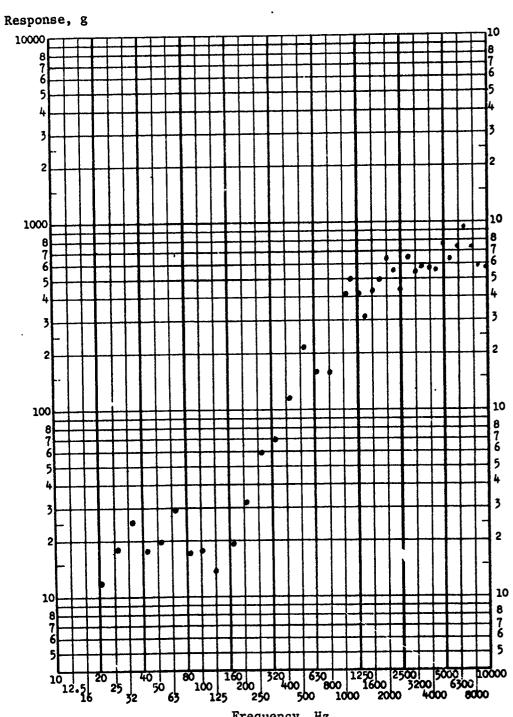
Figure 21 (cont)



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Bench Shock Test - Stage II/III Separation, Run 21 Measurement No. 8 - Tangential axis longeron near station 77

Figure 21 (cont)



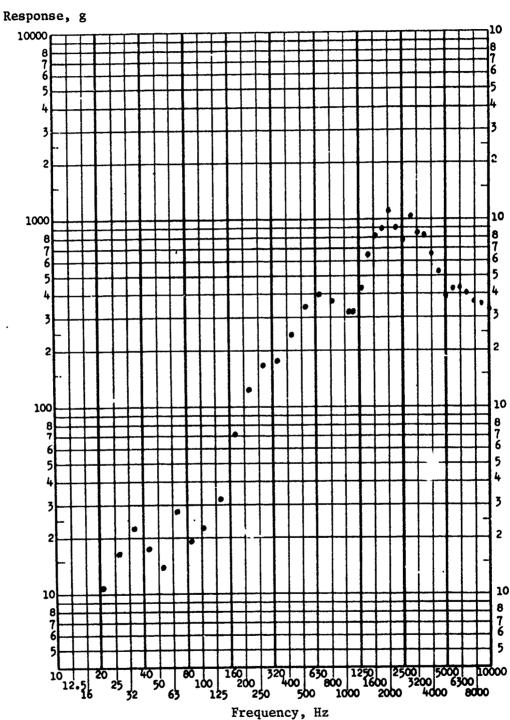
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 21

Measurement No. 9 - Radial axis longeron near
station 77

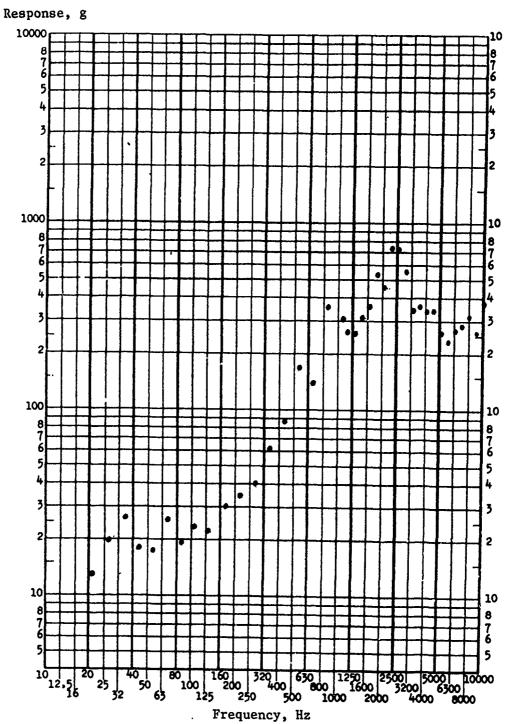
Contract to the state of the st

Figure 21 (cont)



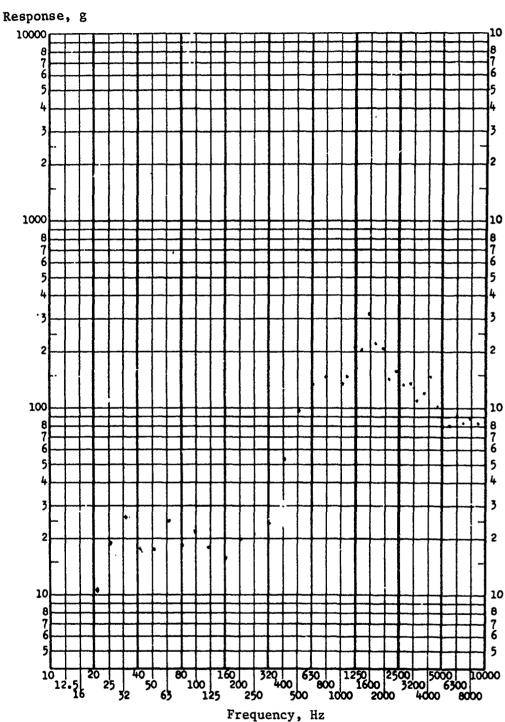
Bench Shock Test - Stage II/III Separation, Run 21 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 21 (cont)



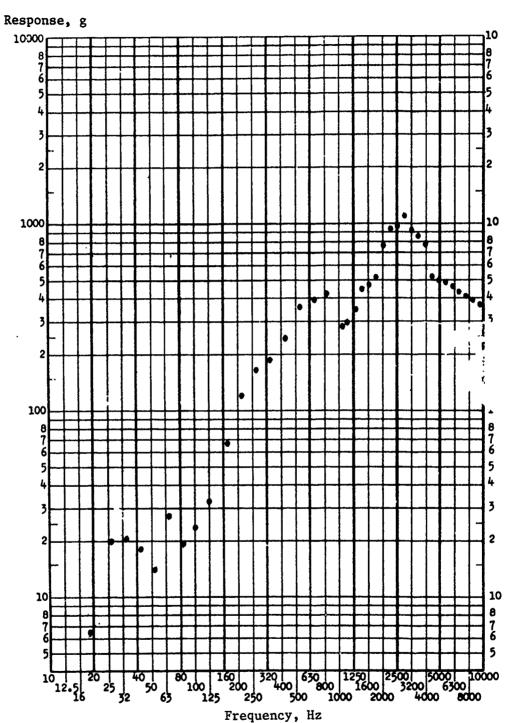
Bench Shock Test - Stage II/III Separation, Run 21 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 21 (cont)



Bench Shock Test - Stage II/III Separation, Run 21 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

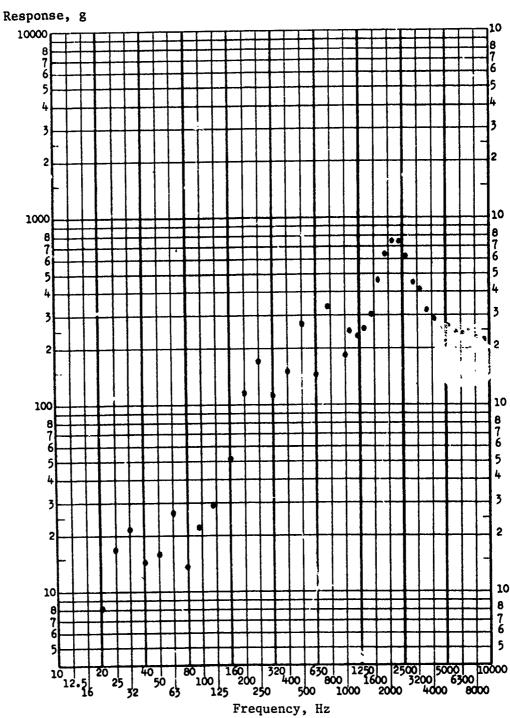
Figure 21 (cont)



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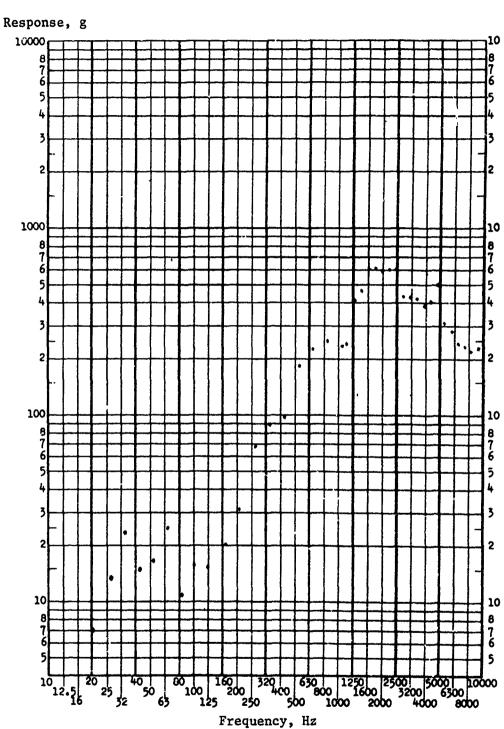
Bench Shock Test - Stage II/III Separation, Run 21 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 21 (cont)



Bench Shock Test - Stage II/III Separation, Run 21 Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 21 (cont)



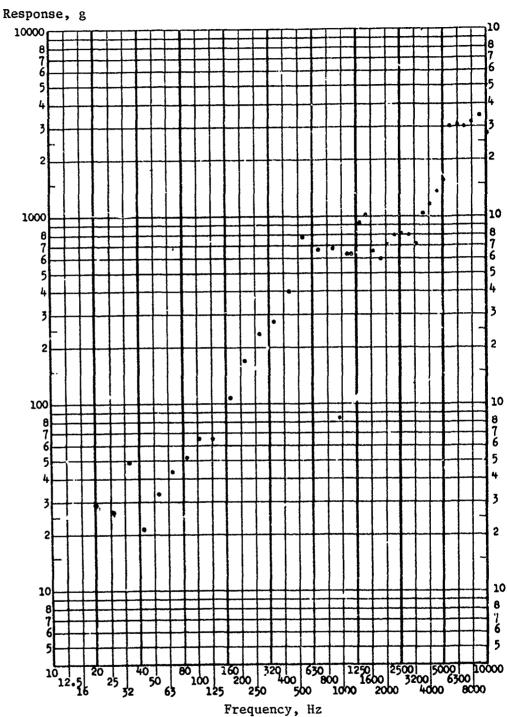
Bench Shock Test - Stage II/III Separation, Run 21 Measurement No. 15 - Lateral axis truss top near longeron attach point

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Figure 21 (concl)

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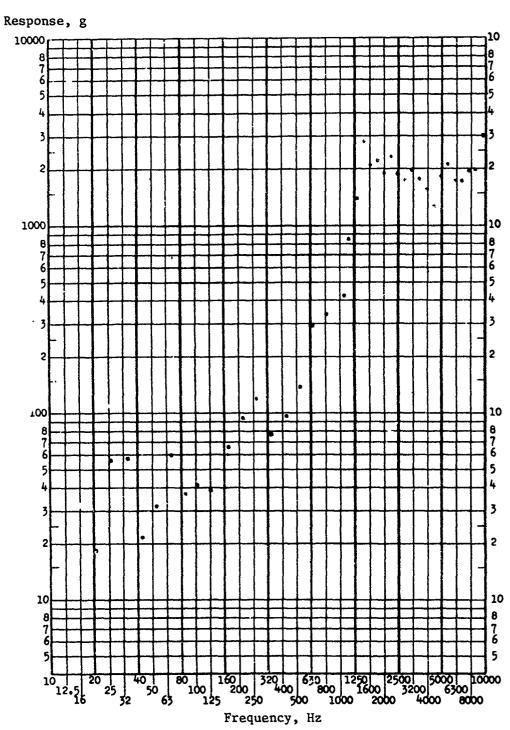


Bench Shock Test - Stage II/III Separation, Run 22 Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 22 Run 22 Shock Response Spectrum

THE RESIDENCE OF THE PROPERTY OF THE PARTY O

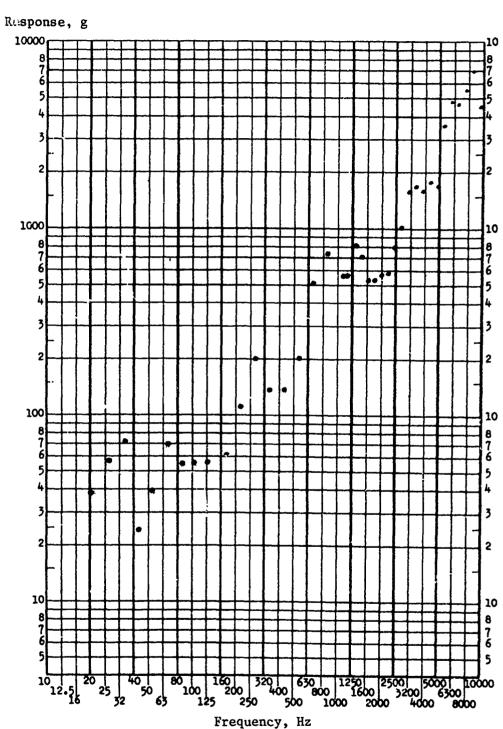
,一个人,我们就是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是 第一个人,我们就是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也



Bench Shock Test - Stage II/III Separation, Run 22 Measurement No. 2 - Tangential axis longeron near station 133

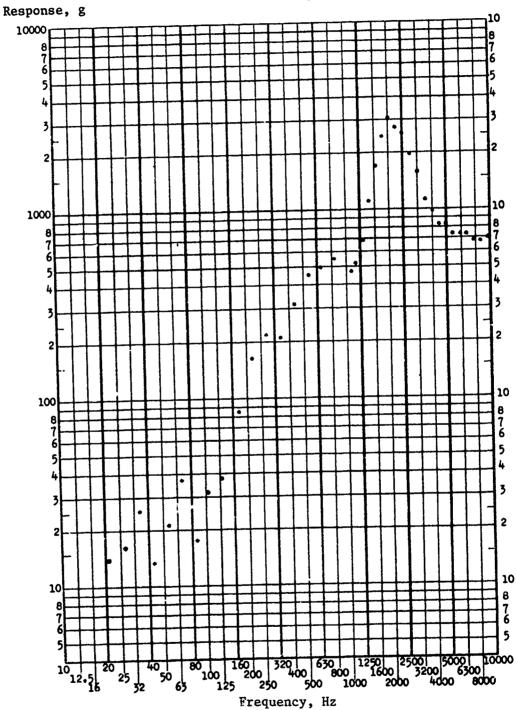
Figure 22 (cont)

and a company of the company of the



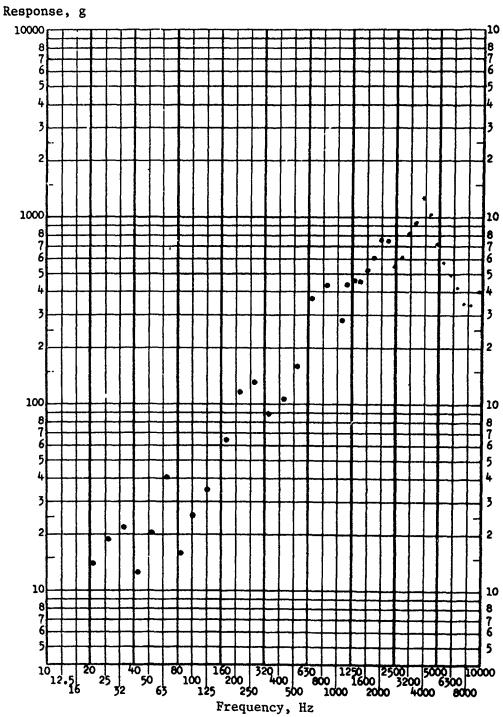
Bench Shock Test - Stage II/III Separation, Run 22 Measurement No. 3 - Radial axis longeron near station 133

Figure 22 (cont)



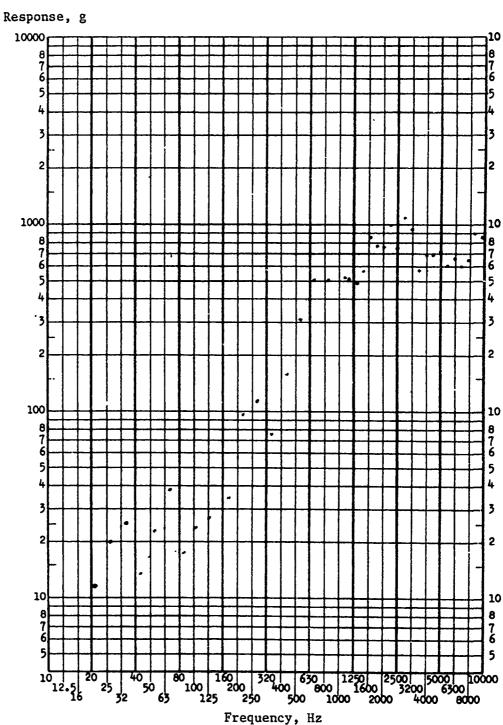
Bench Shock lest - Stage II/III Separation, Run 22 Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 22 (cont)



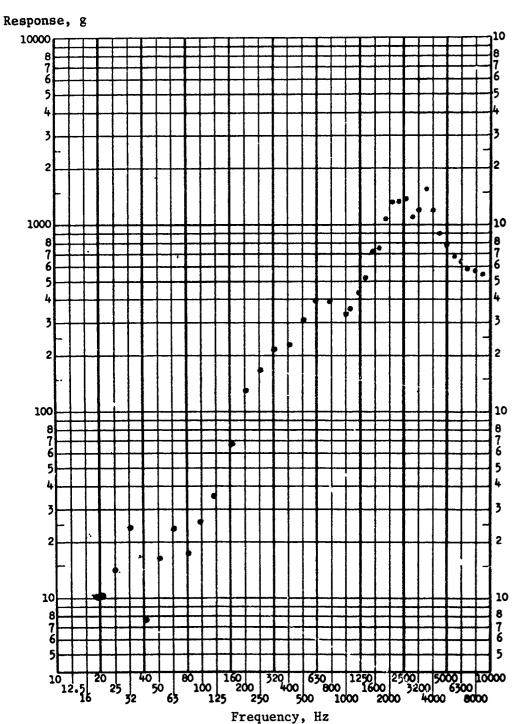
Bench Shock Test - Stage II/III Separation, Run 22 Measurement No. 5 - Tangential axis longeron near station 117

Figure 22 (cont)



Bench Shock Test - Stage II/III Separation, Run 22 Measurement No. 6 - Radial axis longeron near station 117

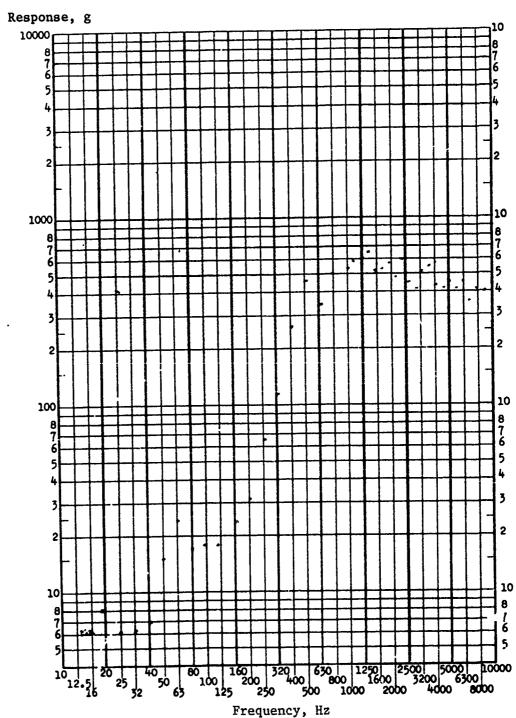
Figure 22 (cont)



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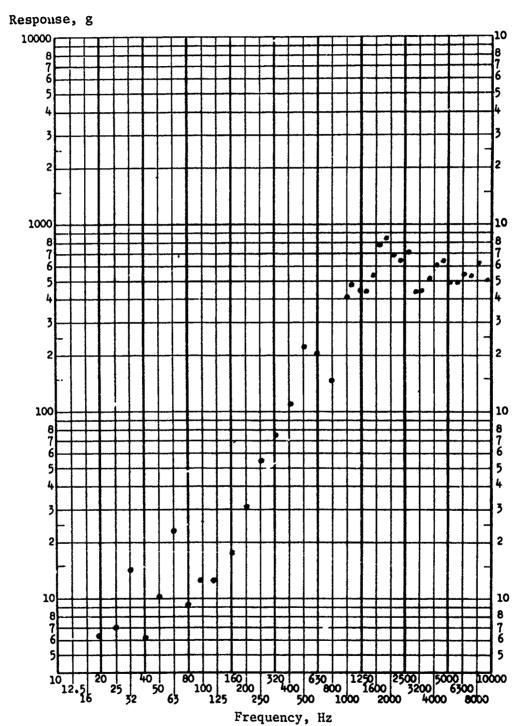
Bench Shock Test - Stage II/III Separation, Run 22 Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 22 (cont)



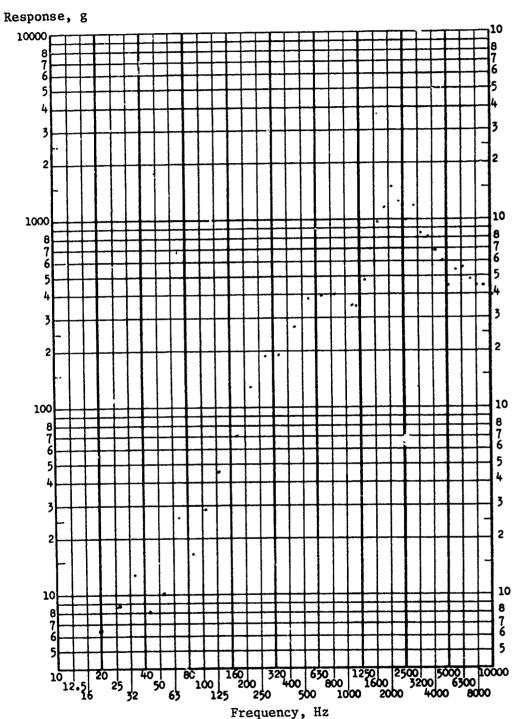
Bench Shock Test - Stage II/III Separation, Run 22 Measurement No. 8 - Tangential axis longeron near station 77

Figure 22 (cont)



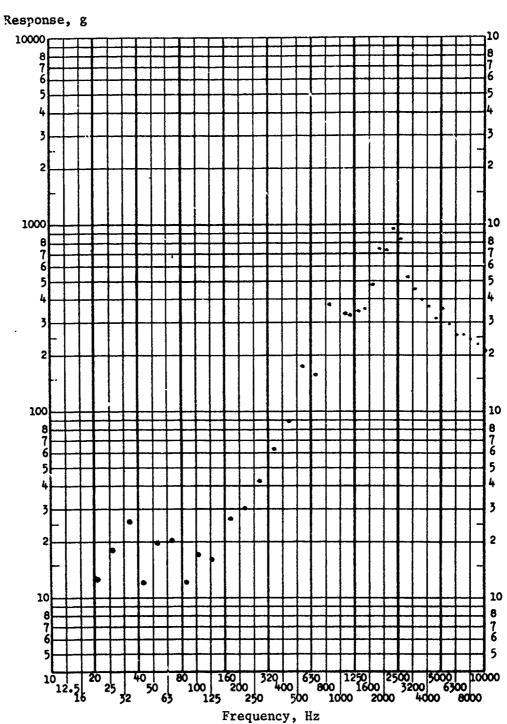
Bench Shock Test - Stage II/III Separation, Run 22 Measurement No. 9 - Radial axis longeron near station 77

Figure 22 (cont)



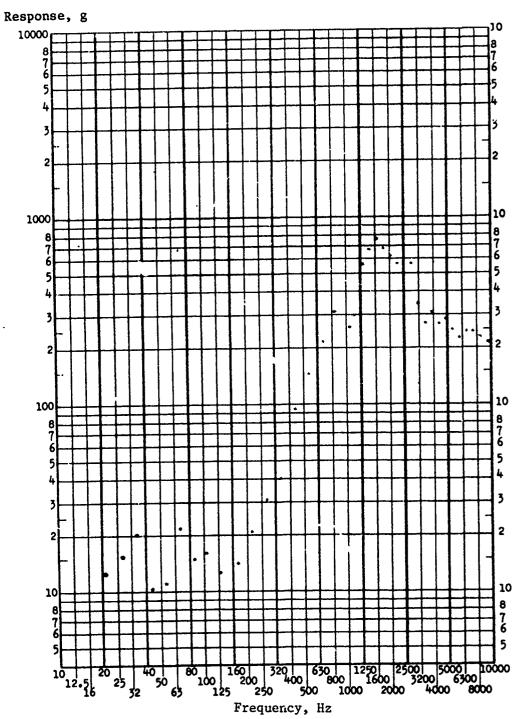
Bench Shock Test - Stage II/III Separation, Run 22 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 22 (cont)



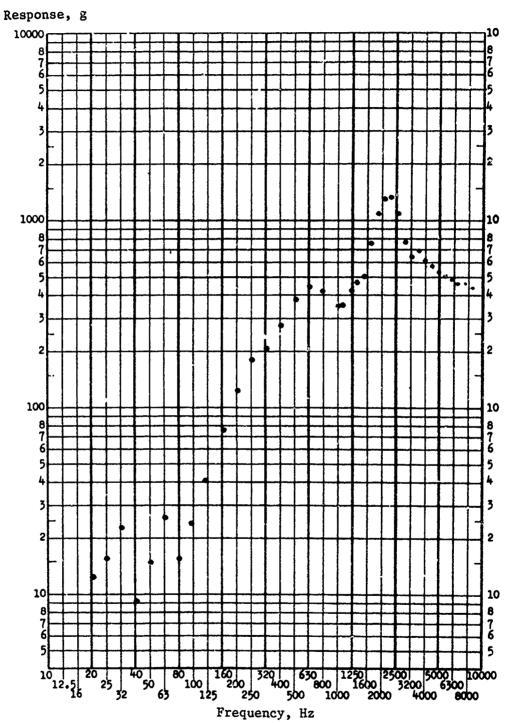
Bench Shock Test - Stage II/III Separation, Run 22 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 22 (cont)



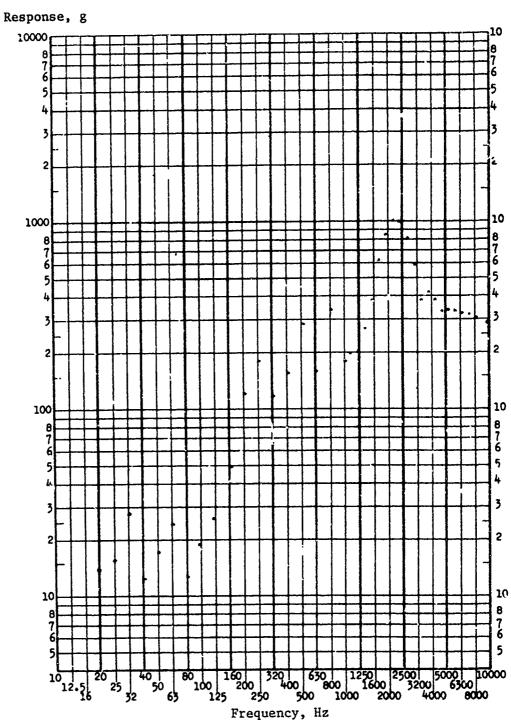
Bench Shock Test - Stage II/III Separation, Run 22 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 22 (cont)



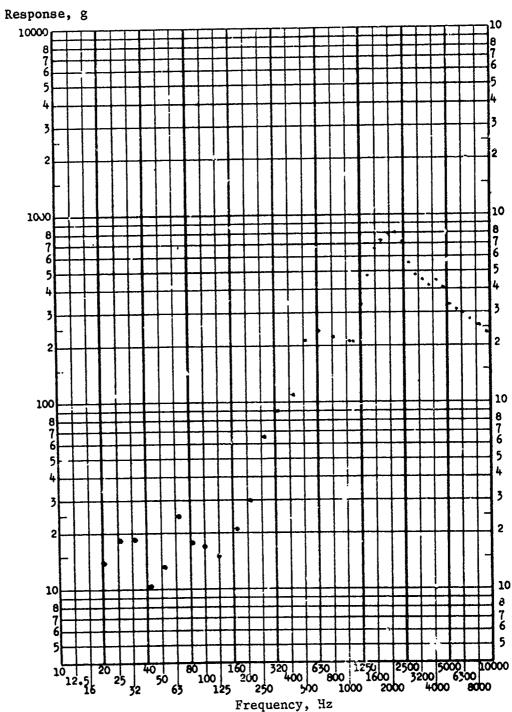
Bench Shock Test - Stage II/III Separation, Run 22 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 22 (cont)



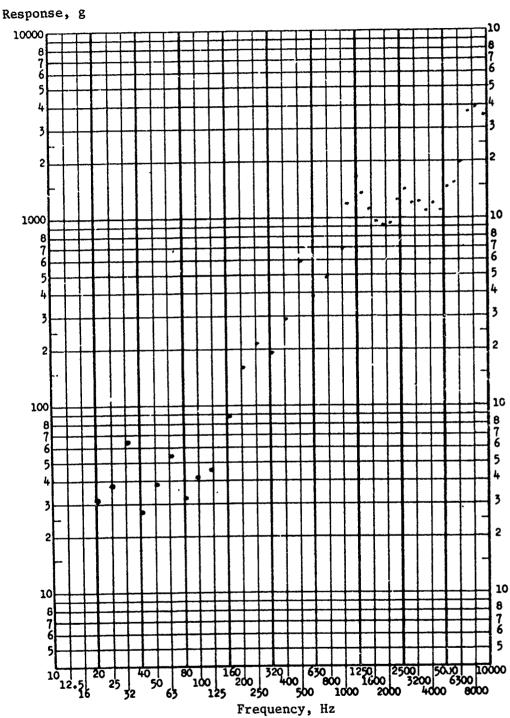
Bench Shock Test - Stage II/III Separation, Run 22 Measurement No. 14 - Lateral axis cruss top near longeron attach point

Figure 22 (cont)



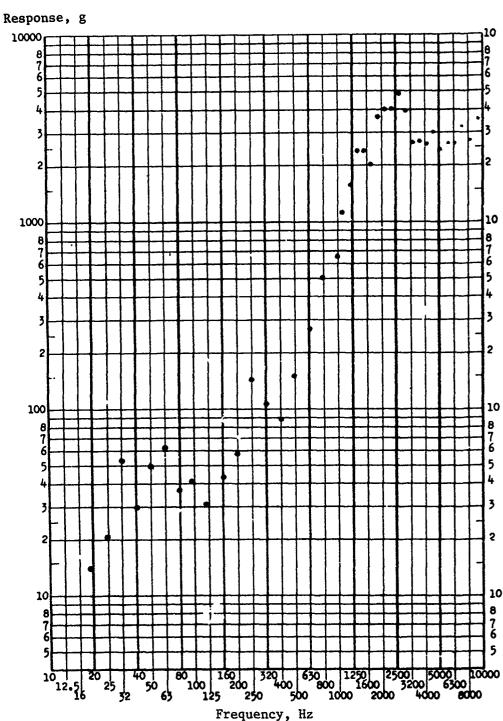
Bench Shock Test - Stage II/III Separation, Run 22 Measurement No. 15 - Lateral axis truss top near longeron attach point

Figure 22 (concl)



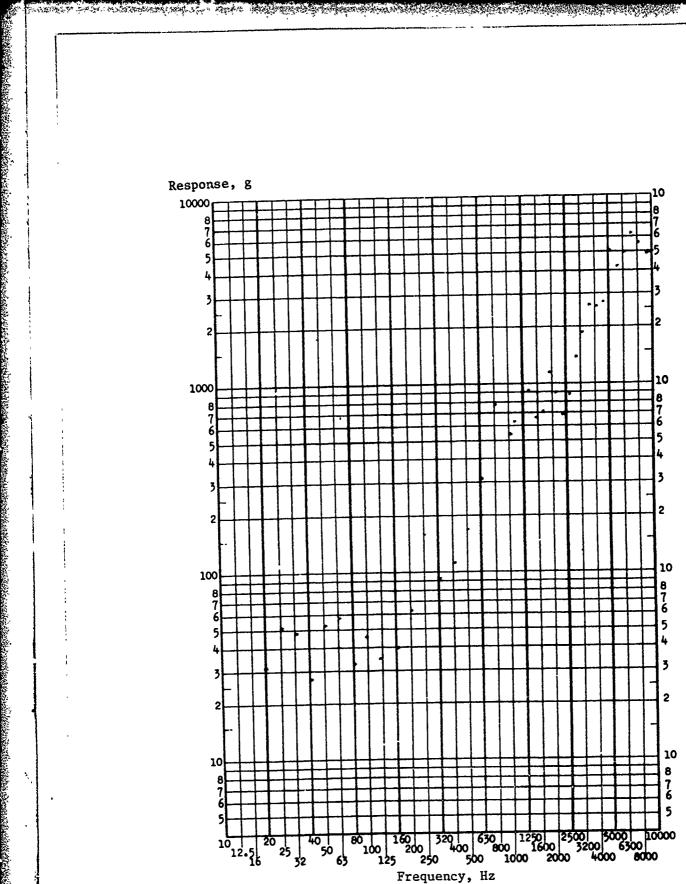
Bench Shock Test - Stage II/III Separation, Rur 23 \_ Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 23 Run 23 Shock Response Spectrum



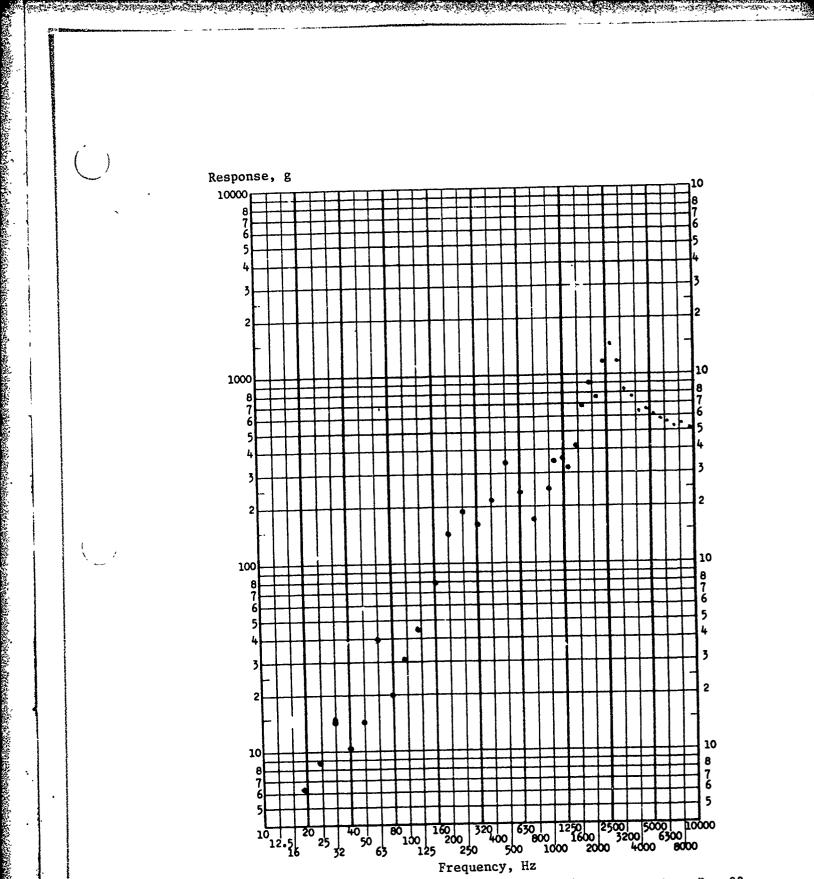
Bench Shock Test - Stage II/III Separation, Run 23 \_\_ Measurement No. 2 - Tangential axis longeron near station 133

Figure 23 (cont)



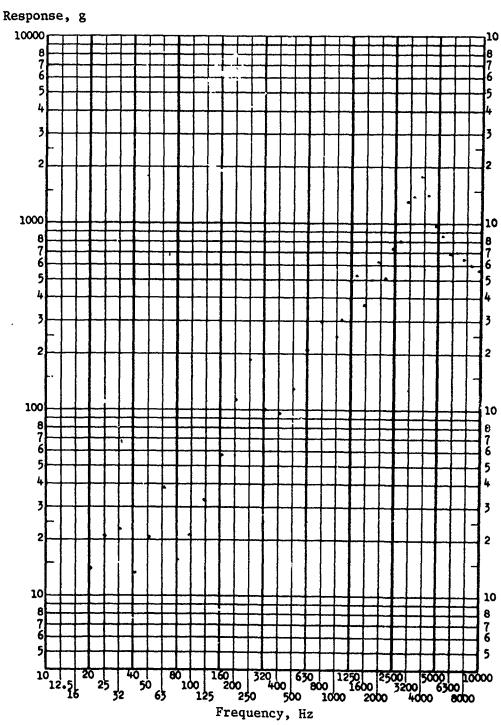
Bench Shock Test - Stage II/III Separation, Run 23 \_ Measurement No. 3 - Radial axis longeron near station 133

Figure 23 (cont)



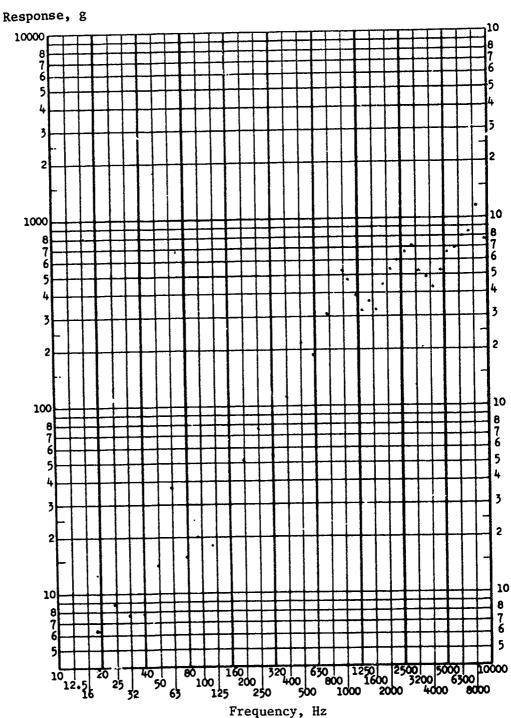
Bench Shock Test - Stage II/III Separation, Run 23 \_ Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 23 (cont)



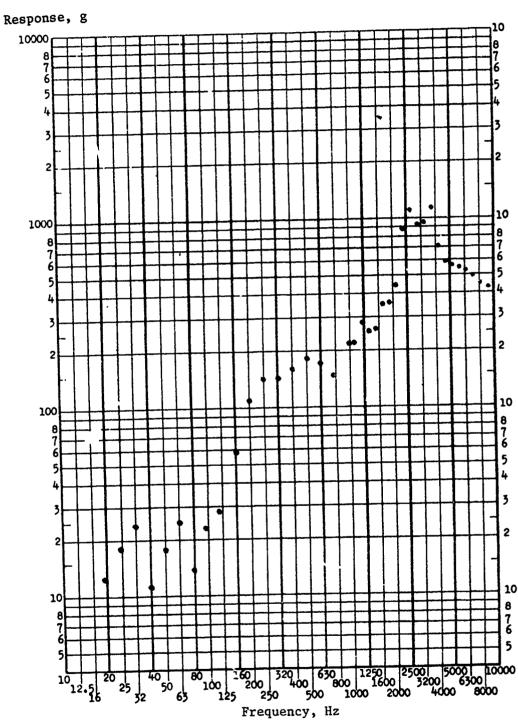
Bench Shock Test - Stage II/III Separation, Run 23 \_ Measurement No. 5 - Tangential axis longeron near station 117

Figure 23 (cont)



Bench Shock Test - Stage II/III Separation, Run 23 \_ Measurement No. 6 - Radial axis longeron near station 117

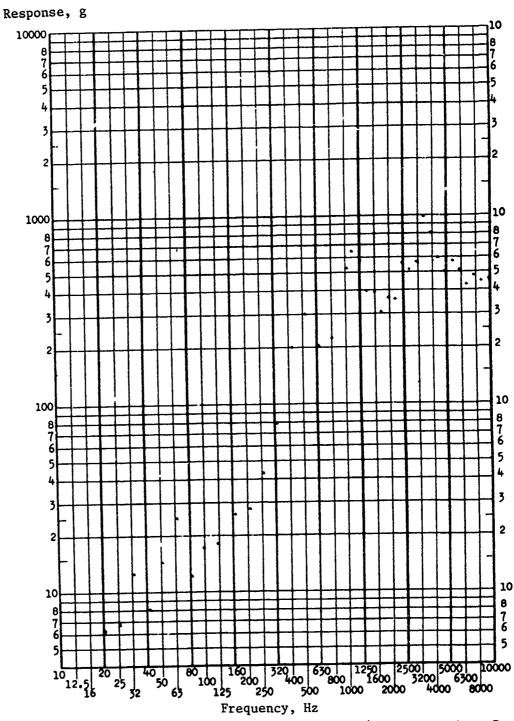
Figure 23 (cont)



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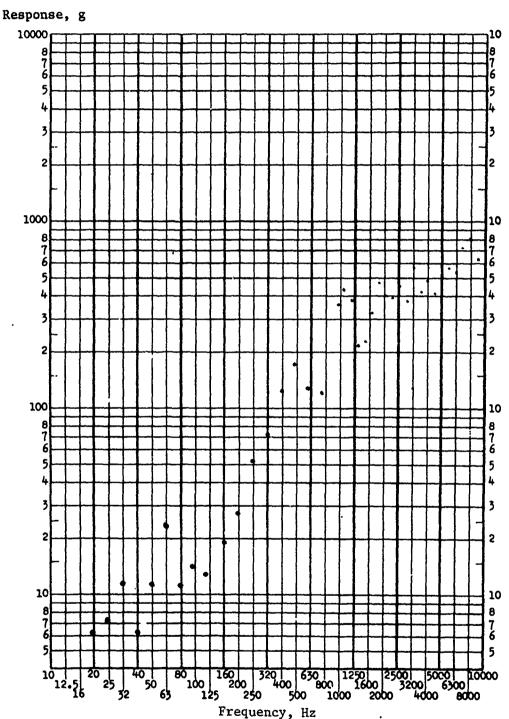
Bench Shock Test - Stage II/III Separation, Run 23\_ Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 23 (cont)



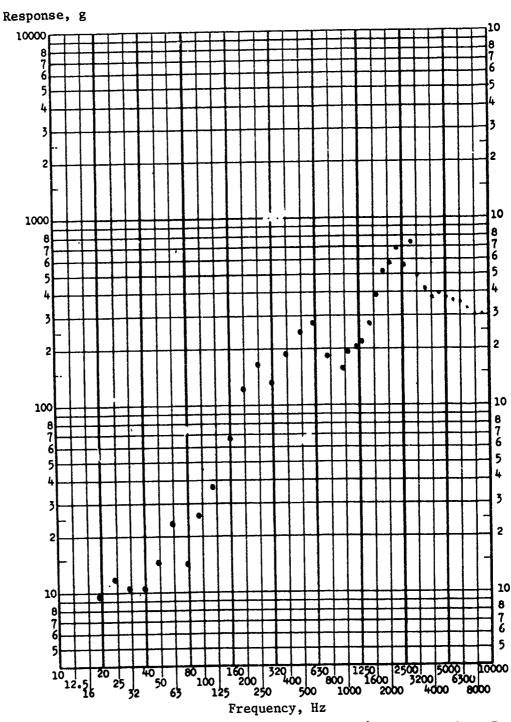
Bench Shock Test - Stage II/III Separation, Run 23 \_ Measurement No. 8 - Tangential axis longeron near station 77

Figure 23 (cont)



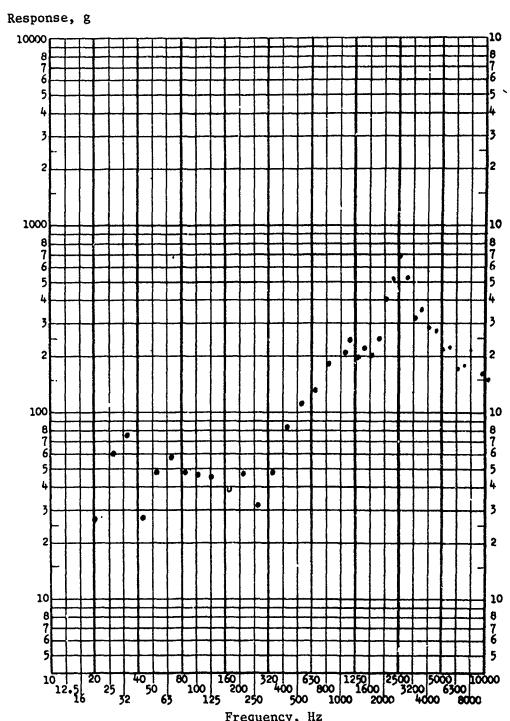
Bench Shock Test - Stage II/III Separation, Run 23\_ Measurement No. 9 - Radial axis longeron near station 77

Figure 23 (cont)



Bench Shock Test - Stage II/III Separation, Run 23\_ Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 23 (cont)

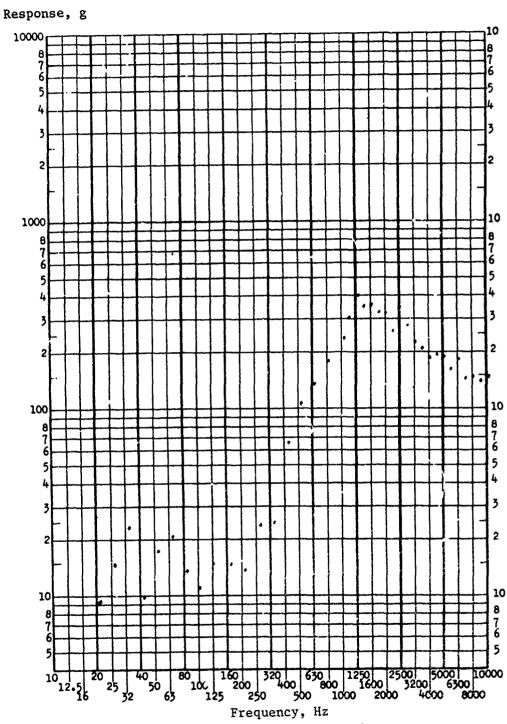


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 23 \_\_

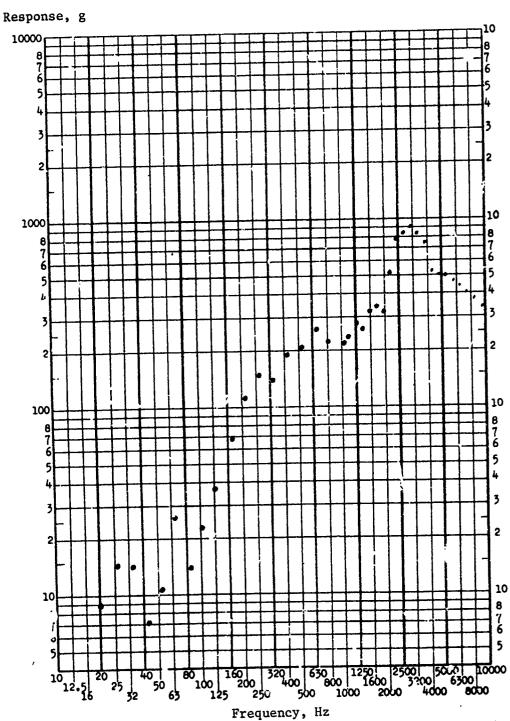
Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 23 (cont)



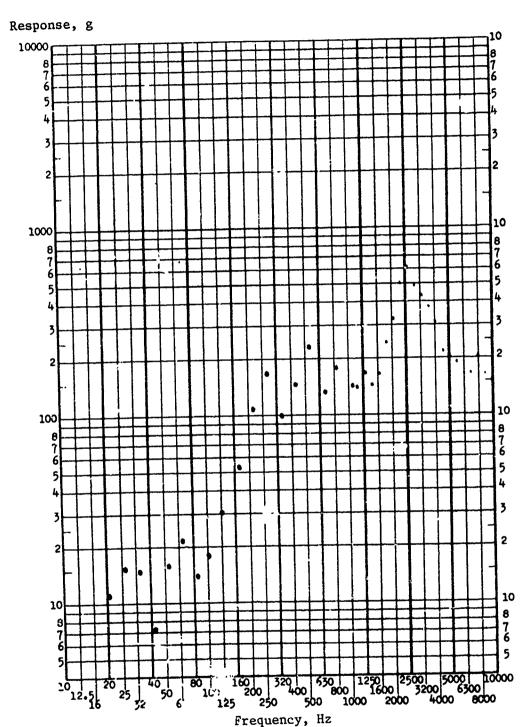
Bench Shock Test - Stage II/III Separation, Run 23 \_\_\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 23 (cont)



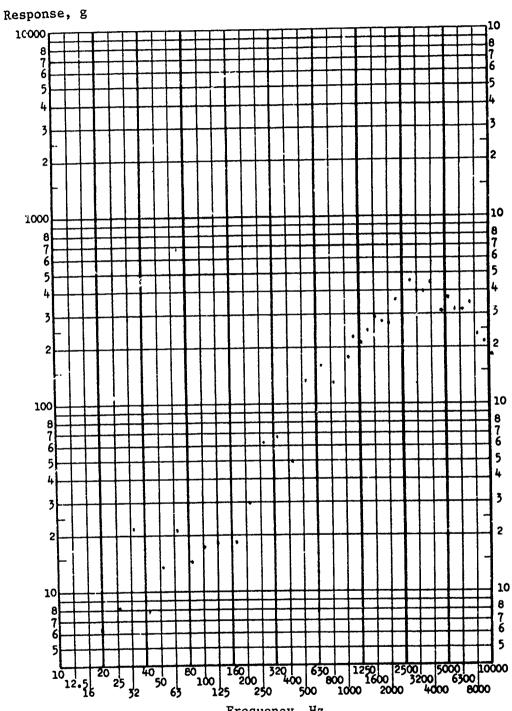
Beach Shock Test - Stage II/III Separation, Run 23 \_\_ Measurement No. 13 - Longitudinal axis truss top near longeron attach poinc

Figure 23 (cont)



Bench Shock Test - Stage II/III Separation, Run 23 \_\_ Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 23 (cont)

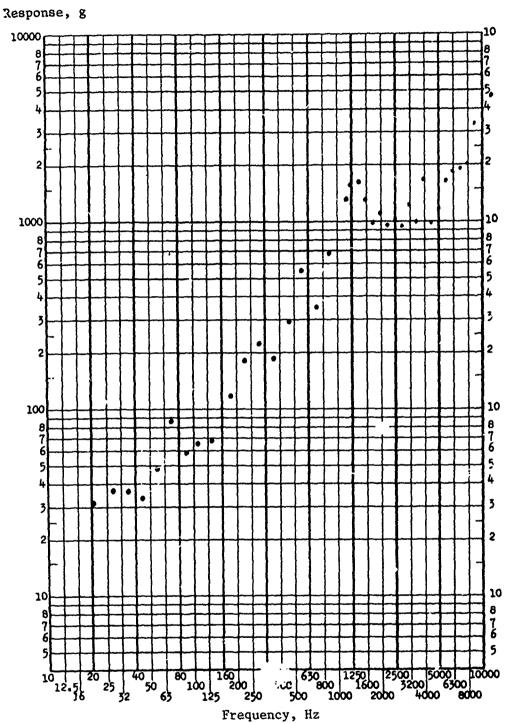


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 23 \_\_

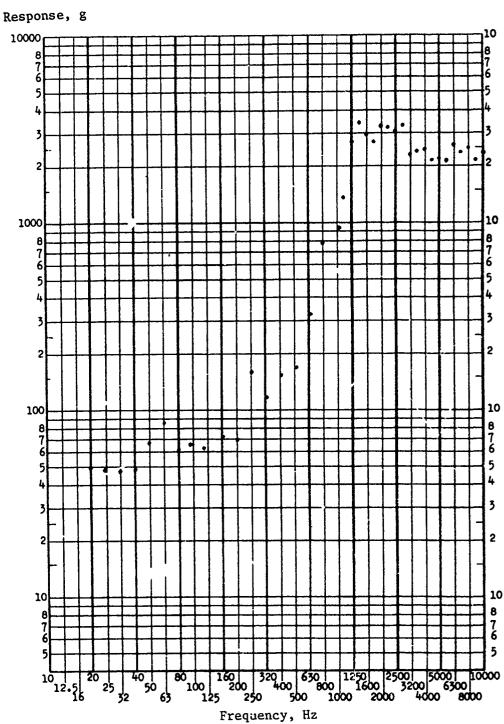
Measurement No. 15 - Lateral axis truss top near
longeron attach point

Figure 23 (concl)



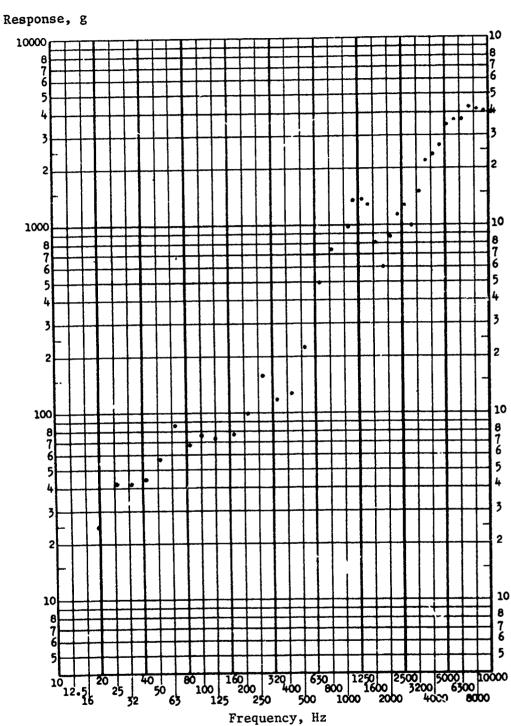
Bench Shock Test - Stage II/III Separation, Run 24 Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 24 Run 24 Shock Response Spectrum



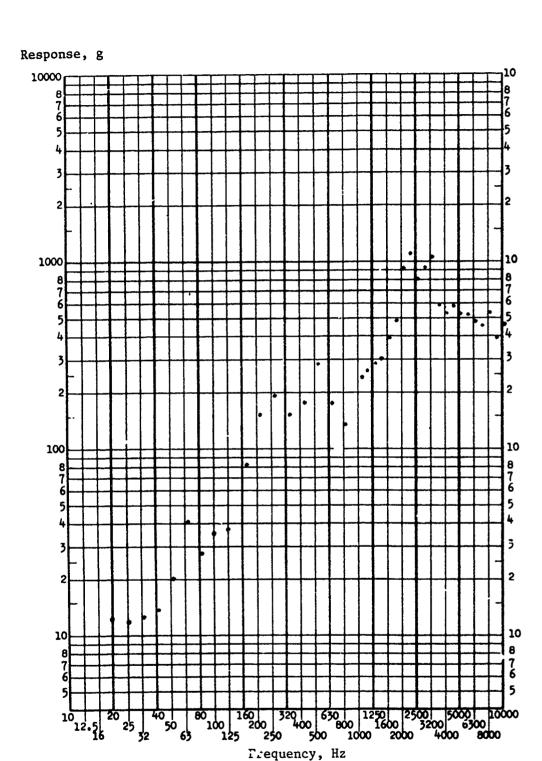
Bench Shock Test - Stage II/III Separation, Run 24 Measurement No. 2 - Tangential axis longeron near station 133

Figure 24 (cont)



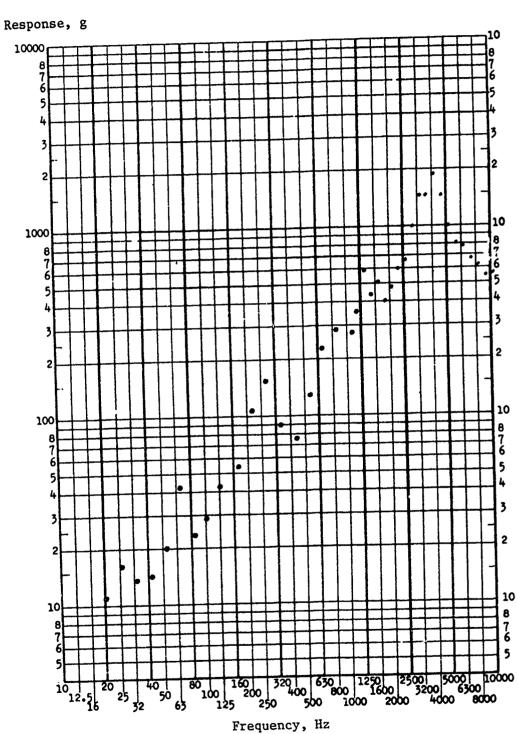
Bench Shock Test - Stage II/III Separation, Run 24 Measurement No. 3 - Radial axis longeron near station 133

Figure 24 (cont)



3ench Shock Test - Stage II/III Separation, Run 24 4easurement No. 4 - Longitudinal axis longeron near station 117

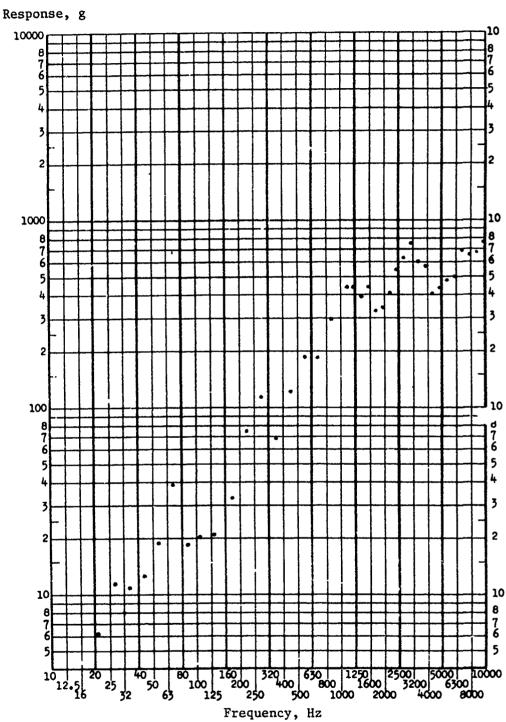
Figure 24 (cont)



The second secon

Bench Shock Test - Stage II/III Separation, Run 24 Measurement No. 5 - Tangential axis longeron near station 117

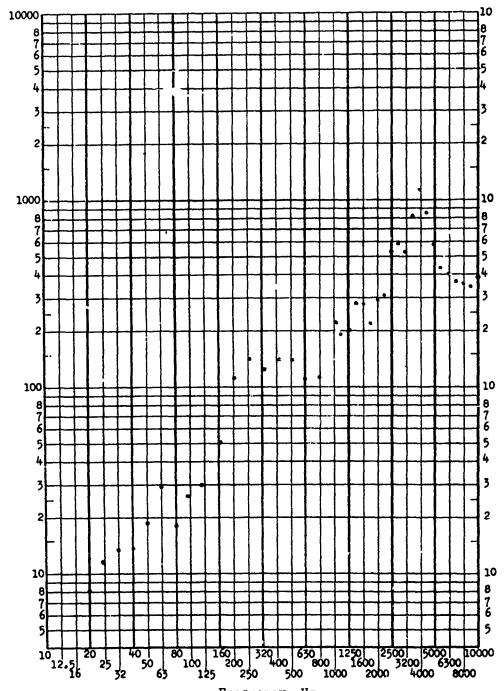
Figure 24 (cont)



Bench Shock Test - Stage II/III Separation, Run 24 Measurement No. 6 - Radial axis longeron near station 117

Figure 24 (cont)

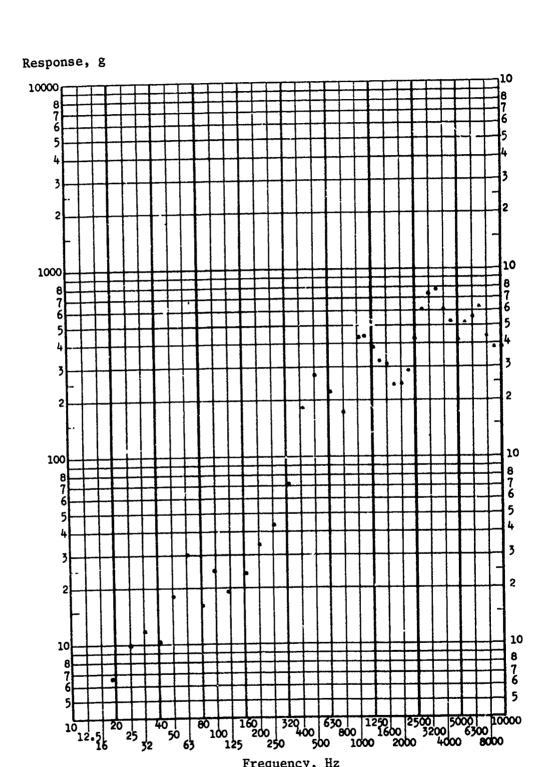




Frequency, Hz ock Test - Stage II/III Sep

Bench Shock Test - Stage II/III Separation, Run 24 Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 24 (cont)



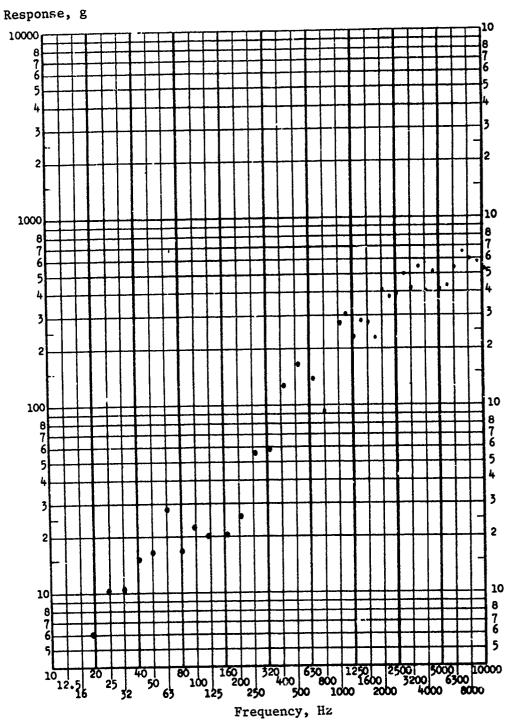
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 24

Measurement No. 8 - Tangential axis longeron near

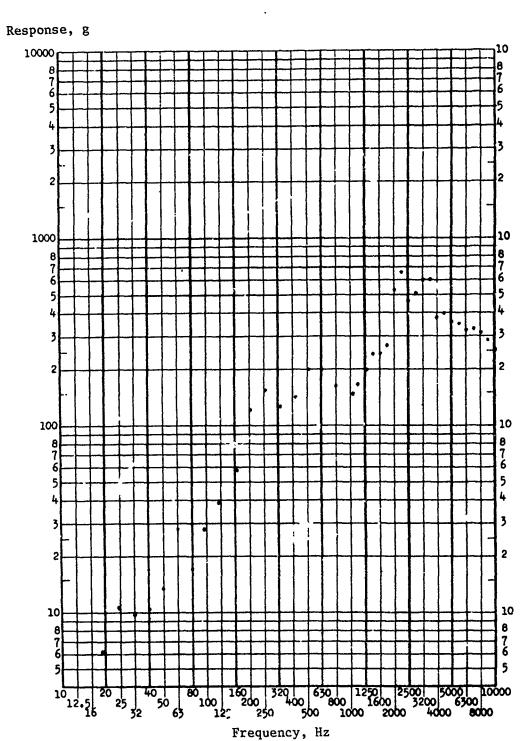
station 77

Figure 24 (cont)



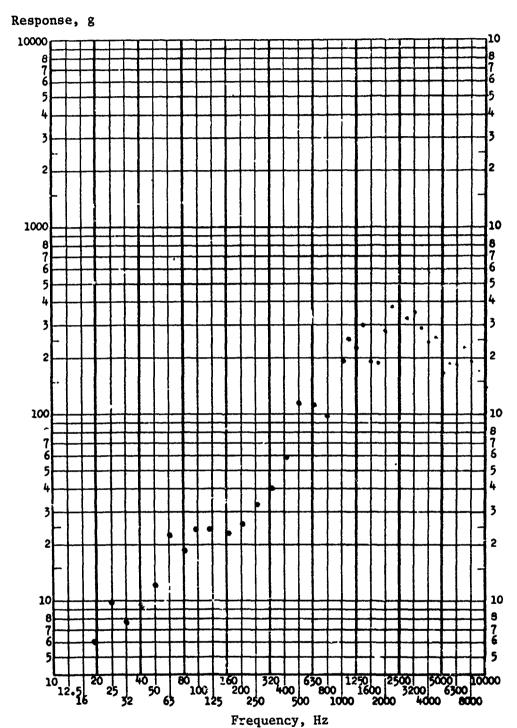
Bench Shock Test - Stage II/III Separation, Run 24
Measurement No. 9 - Radial axis longeron near
station 77

Figure 24 (cont)



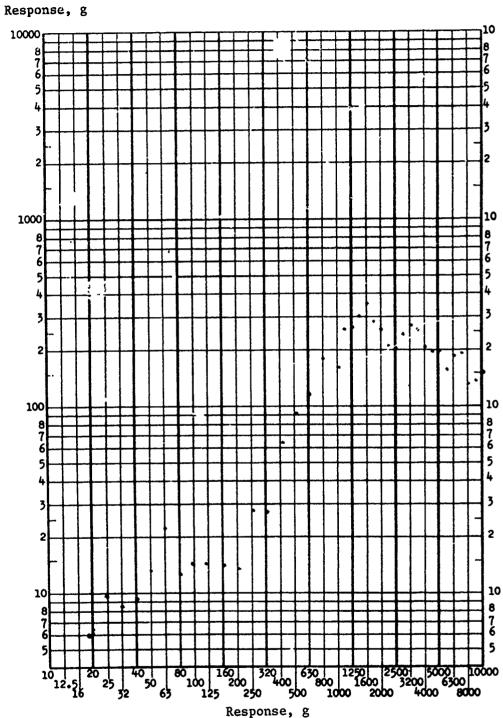
Bench Shock Test - Stage II/III Separation, Run 24 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 24 (cont)



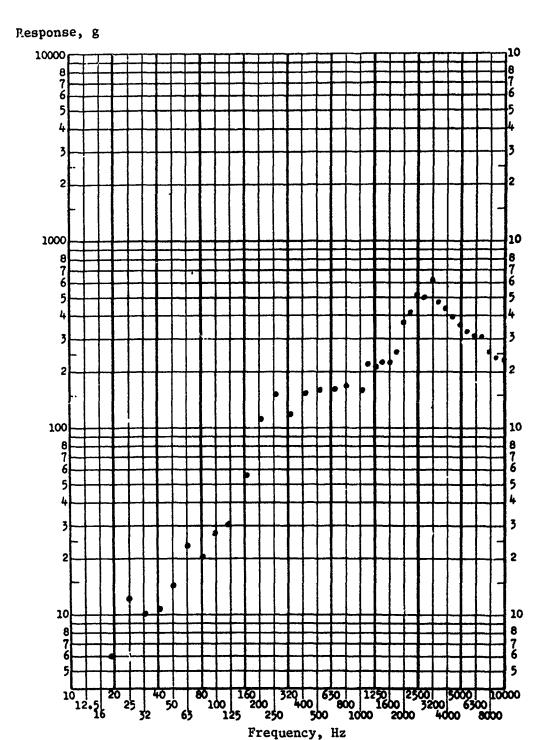
Bench Shock Test - Stage II/III Separation, Run 24 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 24 (cont)



Bench Shock Test - Stage II/III Separation, Run 24 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

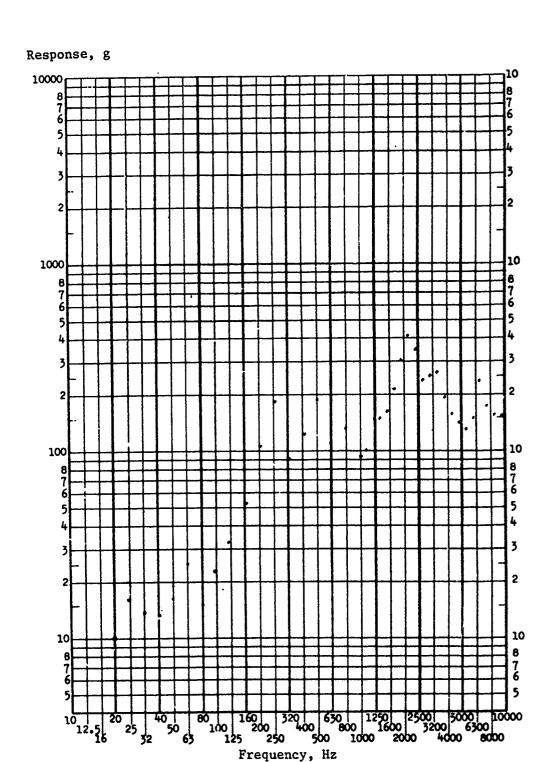
Figure 24 (cont)



Bench Shock Test - Stage II/III Separation, Run 24 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

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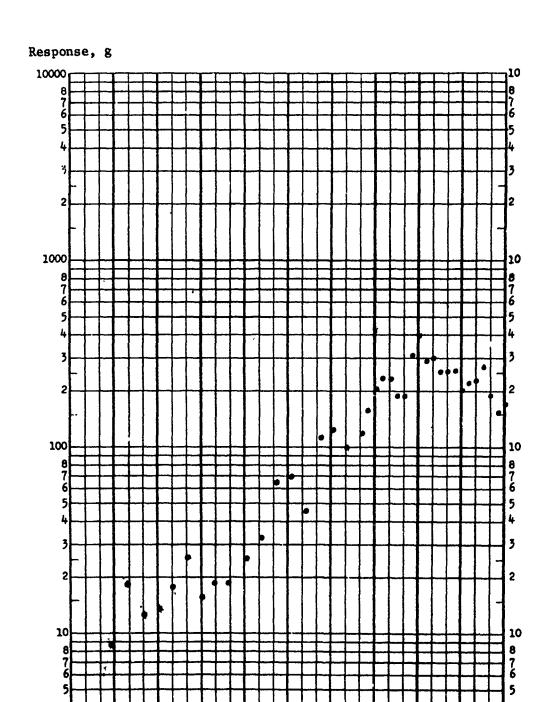
Figure 24 (comt)



Bench Shock Test - Stage II/IJI Separation, Run 24 Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 24 (cont)

Long his contraction of the cont



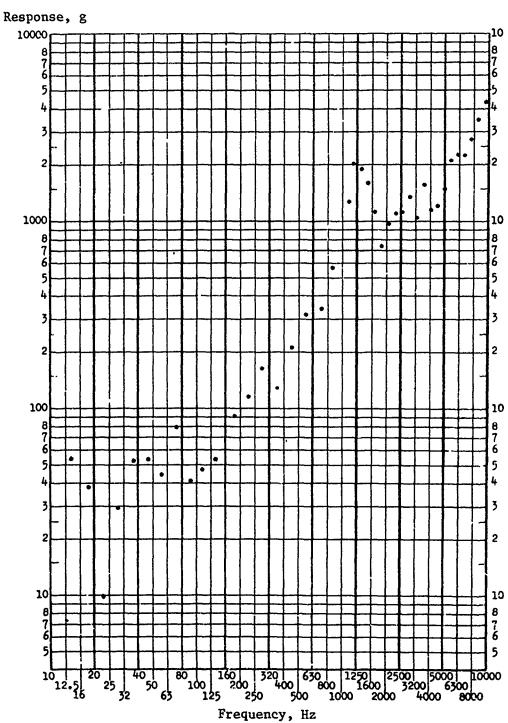
Bench Shock Test - Stage II/III Separation, Run 24 Measurement No. 15 - Lateral axis truss top near longeron attach point

1000

Frequency, Hz

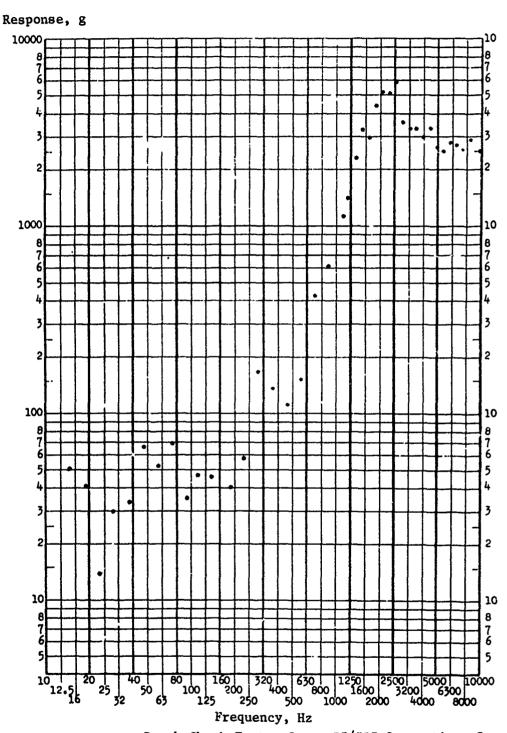
Figure 24 (concl)

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Bench Shock Test - Stage II/III Separation, Run 25 Measurement No. 1 - Longitudinal axis longeron near station 133

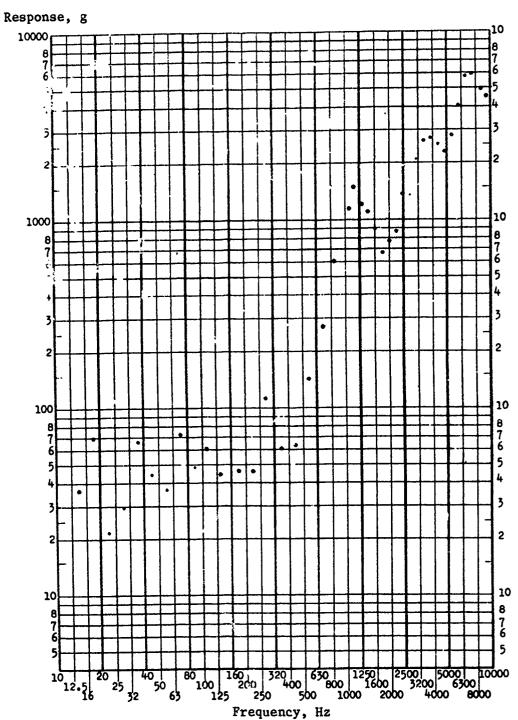
Figure 25 Run 25 Shock Response Spectrum



Bench Shock Test - Stage II/III Separation, Run 25 Measurement No. 2 - Tangential axis longeron near station 133

Figure 25 (cont)

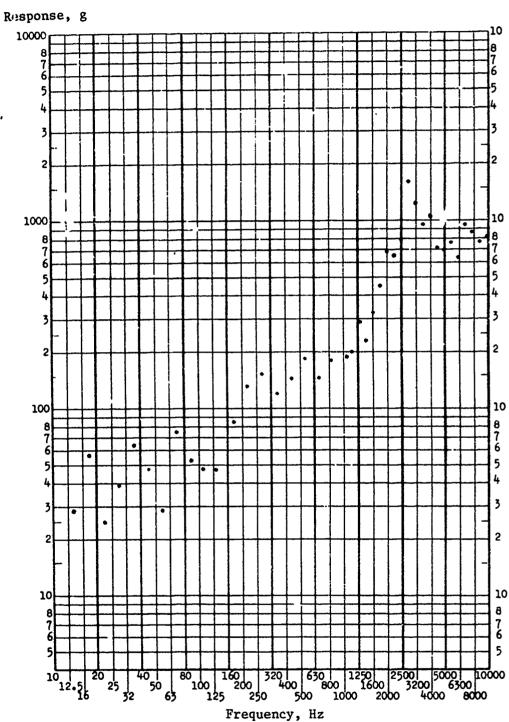
or of the substitute of the su



Bench Shock Test - Stage II/III Separation, Run 25 Measurement No. 3 - Radial axis longeron near station 133

The state of the s

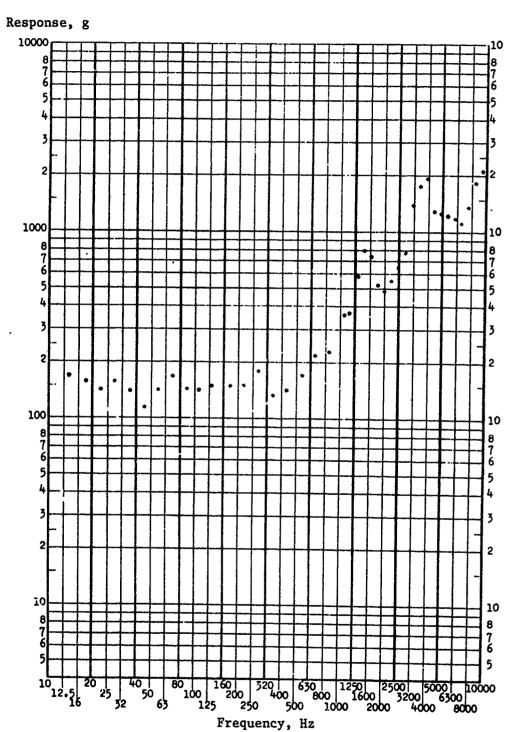
Figure 25 (cont)



Bench Shock Test - Stage II/III Separation, Run 25 Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 25 (cont)

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Bench Shock Test - Stage II/III Separation, Run 25 Measurement No. 5 - Tangential axis longeron near station 117

Figure 25 (cont)

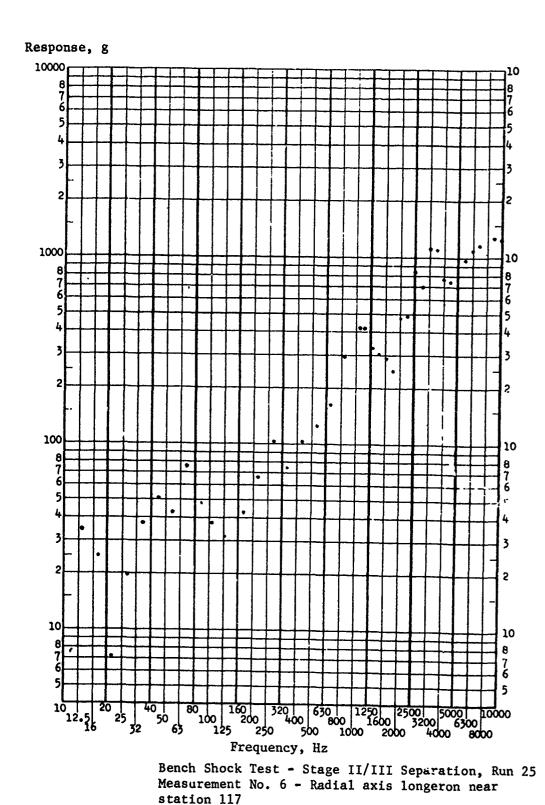
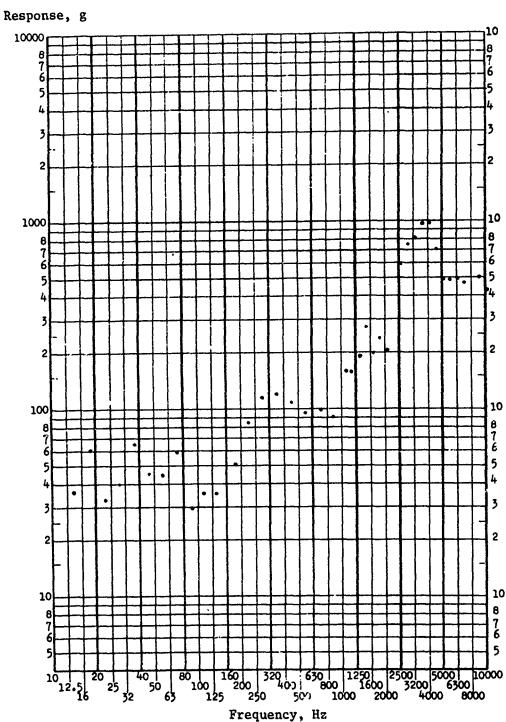


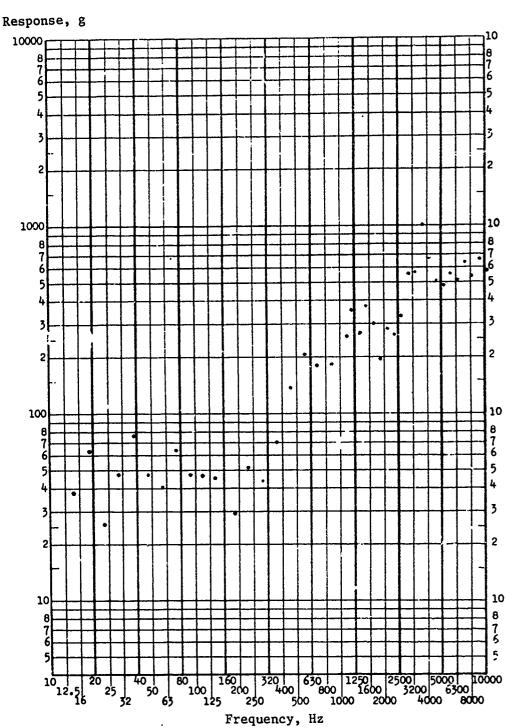
Figure 25 (cont)

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Bench Shock Test - Stage II/III Separation, Run 25 Measurement No. 7 - Longitudinal axis longeron near station 77

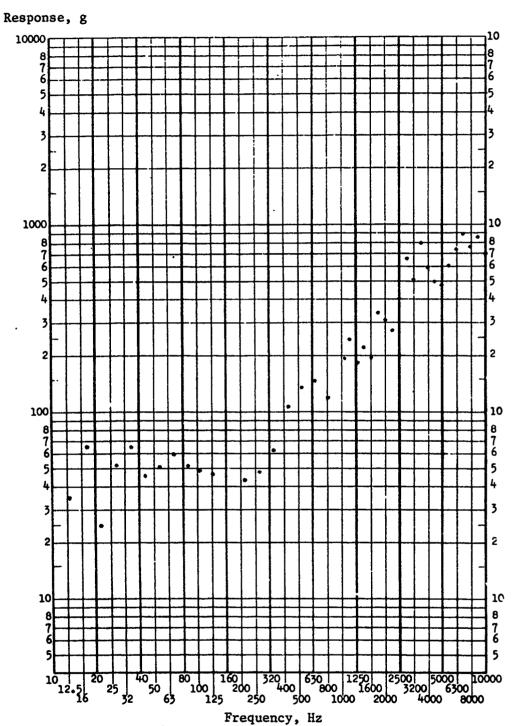
Figure 25 (cont)



Bench Shock Test - Stage II/III Separation, Run 25 Measurement No. 8 - Tangential axis longeron near station 77

Figure 25 (cont)

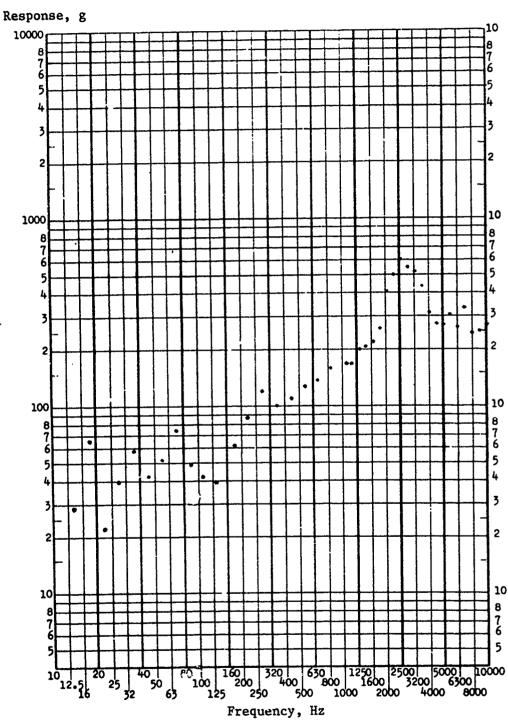
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Bench Shock Test - Stage II/III Separation, Run 25 Measurement No. 9 - Radial axis longeron near station 77

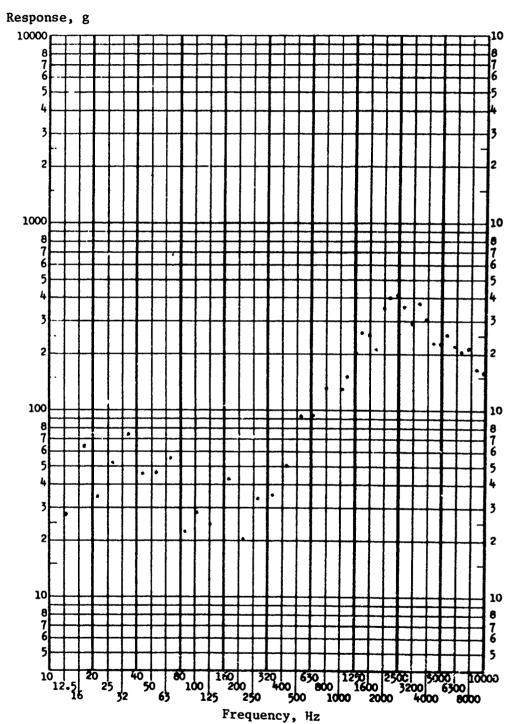
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Figure 25 (cont)



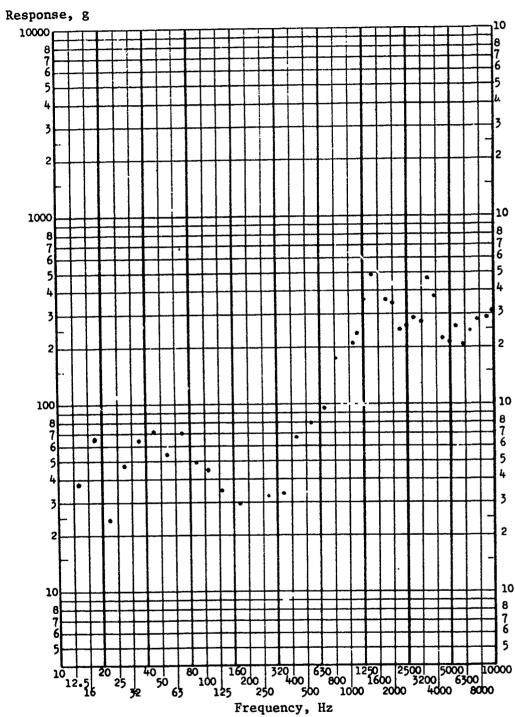
Bench Shock Test - Stage II/III Separation, Run 25 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 25 (cont)



Bench Shock Test - Stage II/III Separation, Run 25 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

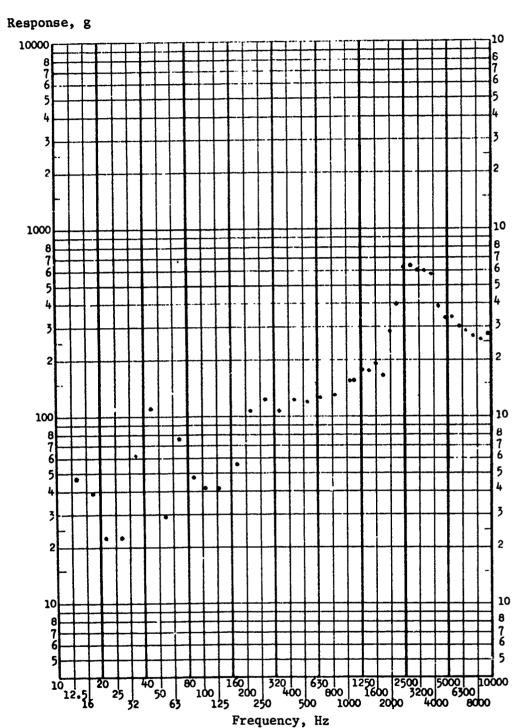
Figure 25 (cont)



Bench Shock Test - Stage II/III Separation, Run 25 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

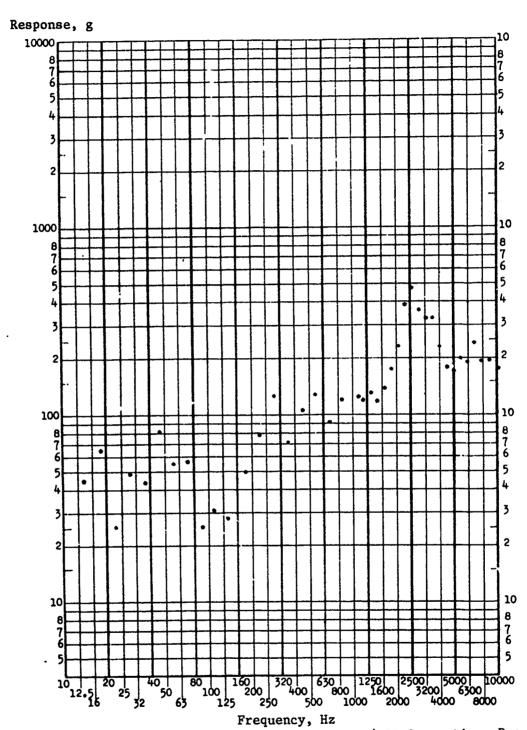
Figure 25 (cont)

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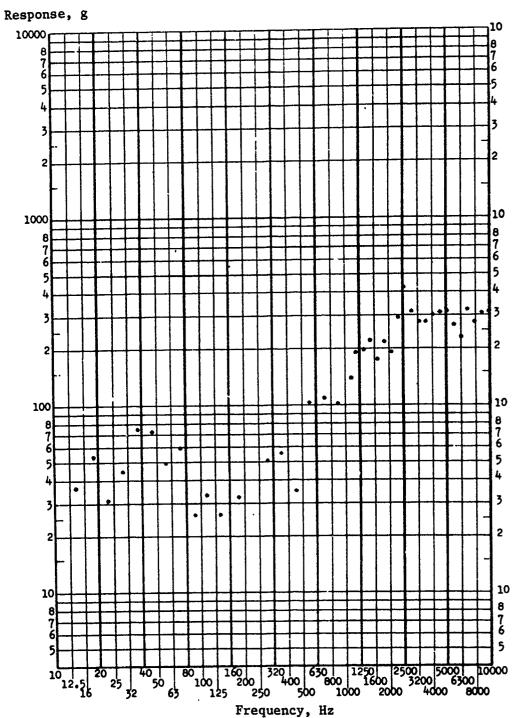
Bench Shock Test - Stage II/III Separation, Run 25 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 25 (cont)



Bench Shock Test - Stage II/III Separation, Run 25 Measurement No. 14 - Lateral axis truss top near longeron attach point

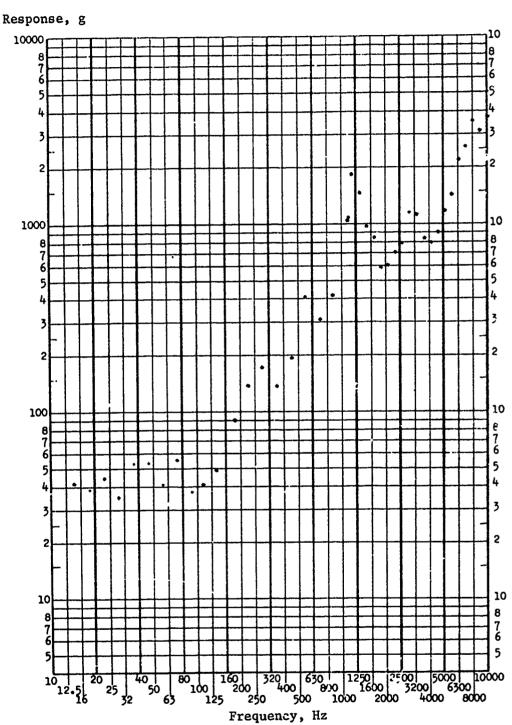
Figure 25 (cont)



Bench Shock Test - Stage II/III Separation, Run 25 Measurement No. 15 - Lateral axis truss top near longeron attach point

Figure 25 (concl)

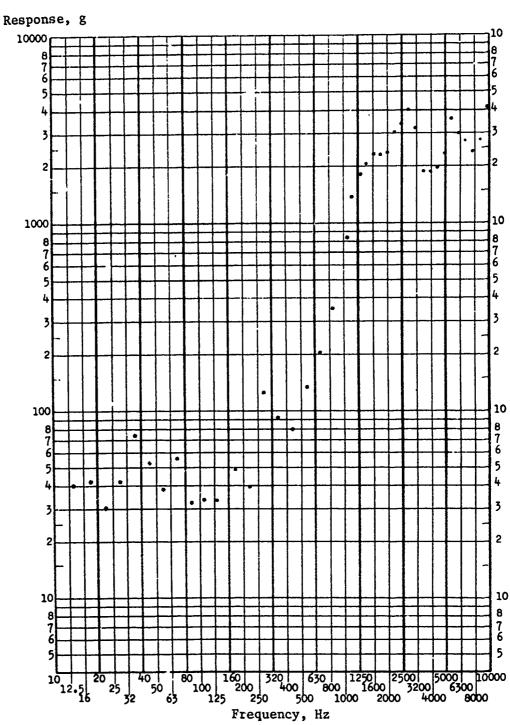
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Bench Shock Test - Stage II/III Separation, Run 26 Measurement No. 1 - Longitudinal axis longeron near station 133

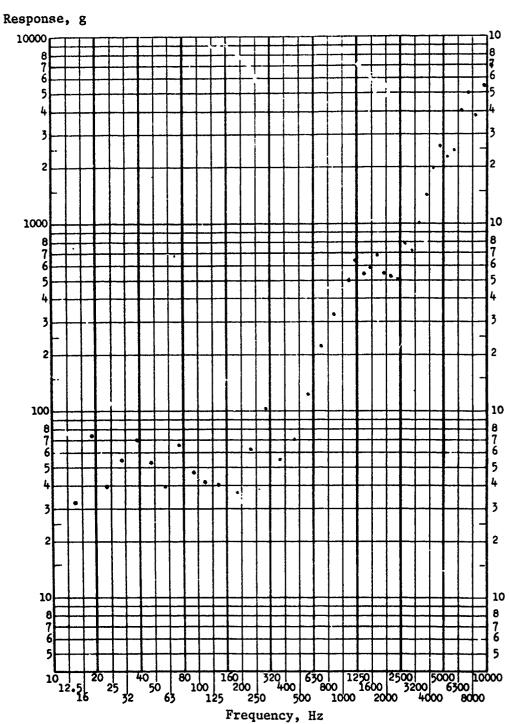
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Figure 26 Run 26 Shock Response Spectrum



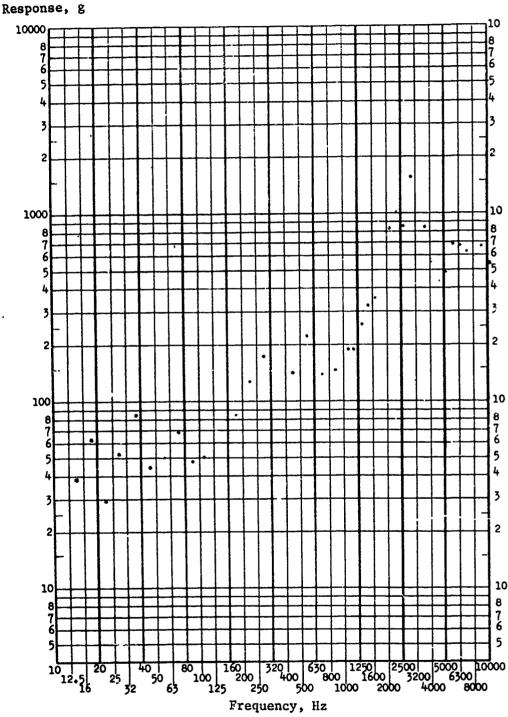
Bench Shock Test - Stage II/III Separation, Run 26 Measurement No. 2 - Tangential axis longeron near station 133

Figure 26 (cont)



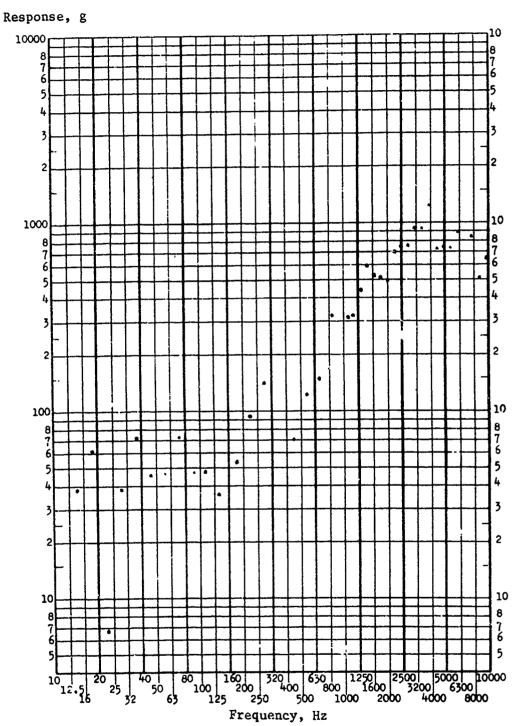
Bench Shock Test - Stage II/III Separation, Run 26 Measurement No. 3 - Radial axis longeron near station 133

Figure 26 (cont)



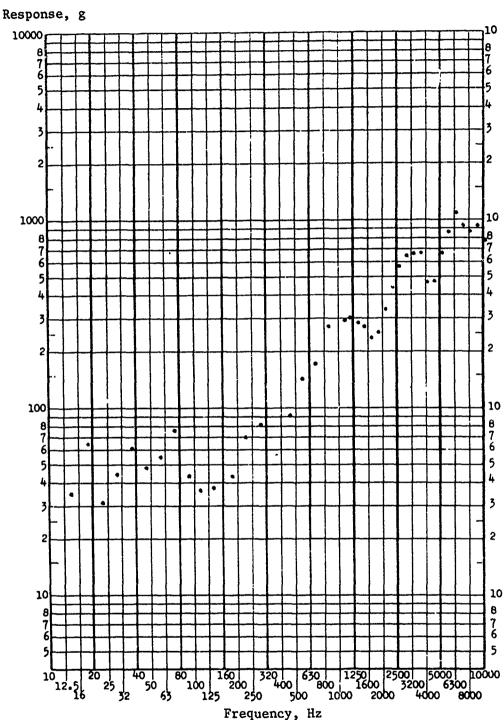
Bench Shock Test - Stage II/III Separation, Run 26 Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 26 (cont)



Bench Shock Test - Stage II/III Separation, Run 26 Measurement No. 5 - Tangential axis longeron near station 117

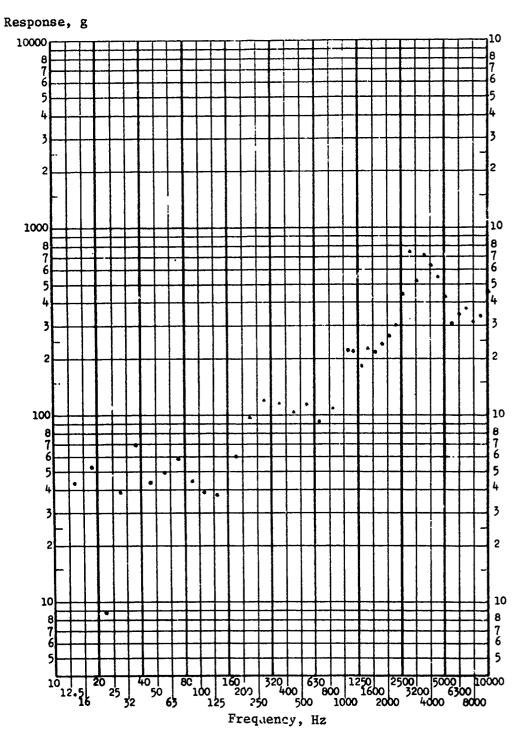
Figure 26 (cont)



Bench Shock Test - Stage II/III Separation, Run 26 Measurement No. 6 - Radial axis longeron near station 117

Figure 26 (cont)

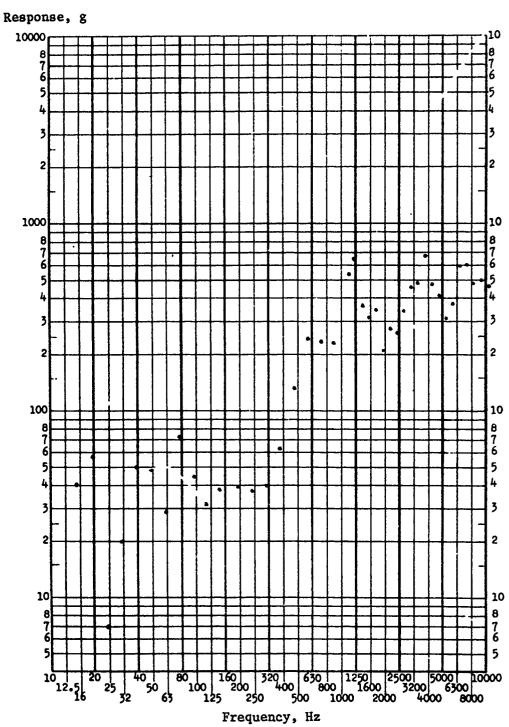
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Bench Shock Test - Stage II/III Separa lon, Run 26 Measurement No. 7 - Longitudinal axis longeron near station 77

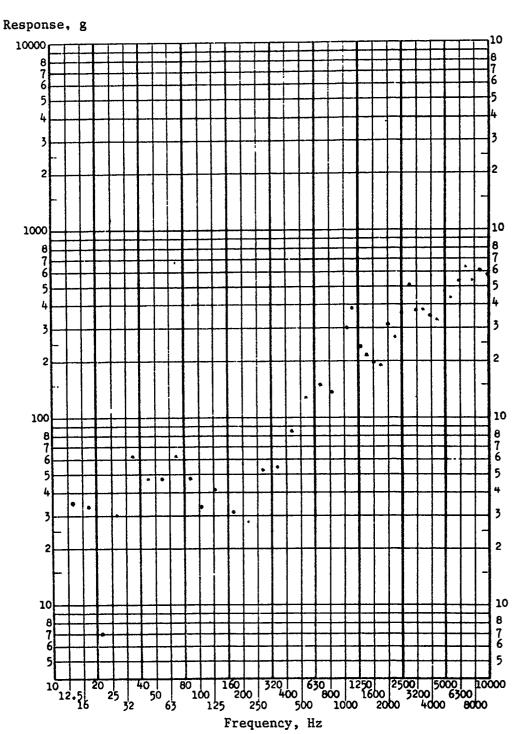
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Figure 26 (cont)



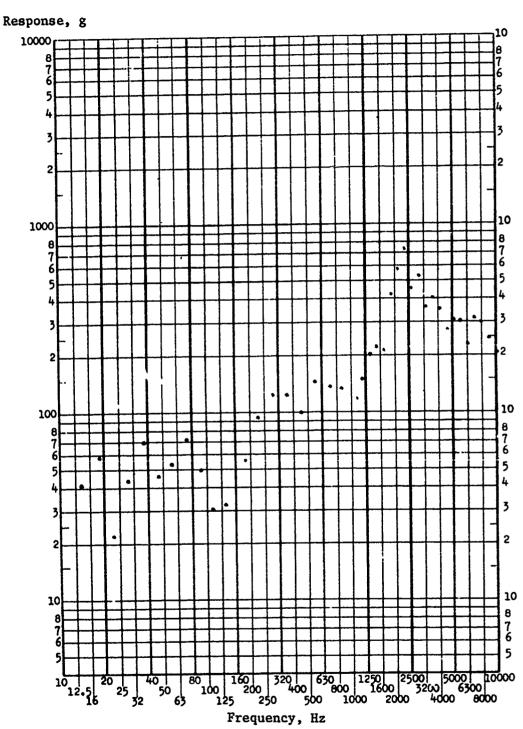
Bench Shock Test - Stage II/III Separation, Run 26 Measurement No. 8 - Tangential axis longeron near station 77

Figure 26 (cont)



Bench Shock Test - Stage II/III Separation, Run 26 Measurement No. 9 - Radial axis longeron near station 77

Figure 26 (cont)



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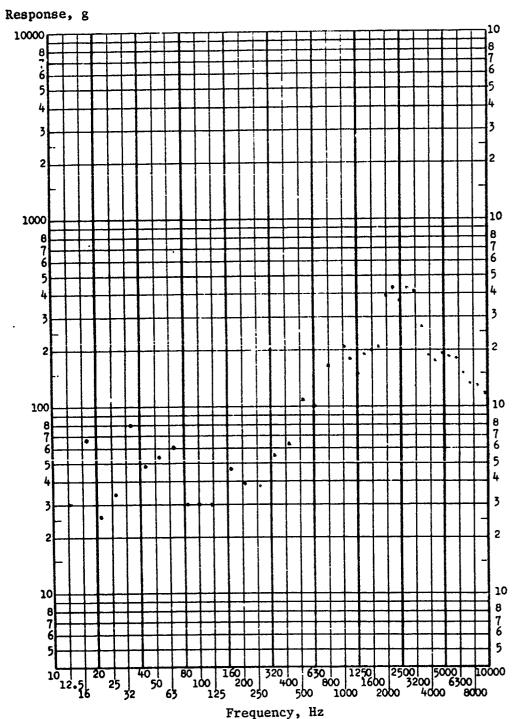
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Bench Shock Test - Stage II/III Separation, Run 26 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 26 (cont)



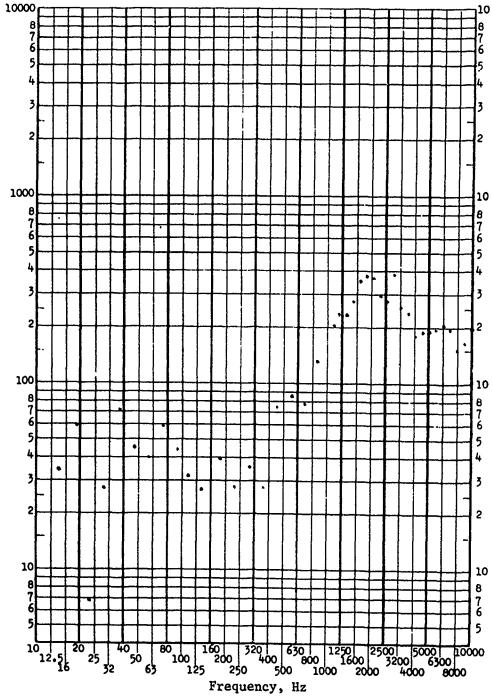
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Bench Shock Test - Stage II/III Separation, Run 26 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

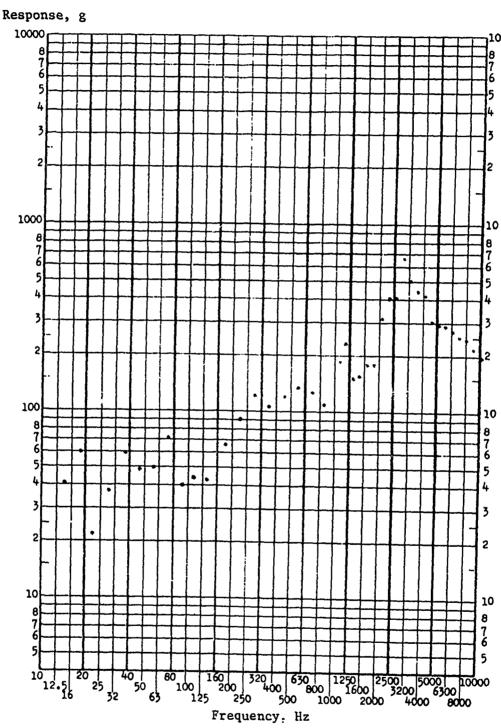
Figure 26 (cont)





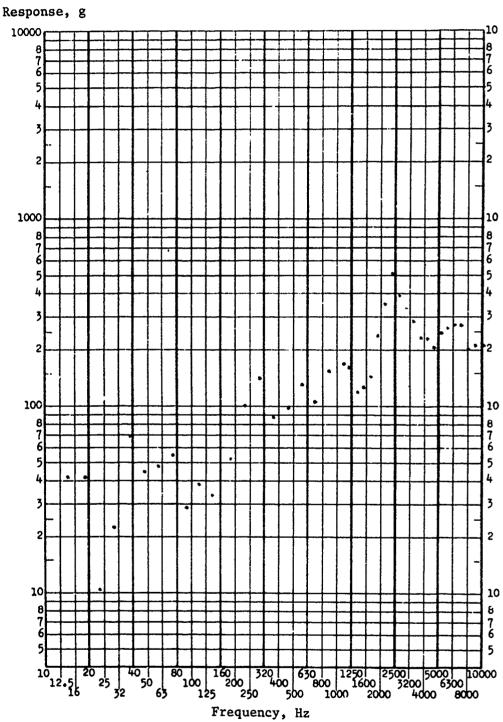
Bench Shock Test - Stage II/III Separation, Run 26 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 26 (cont)



Bench Shock Test - Stage II/III Separation, Run 26 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

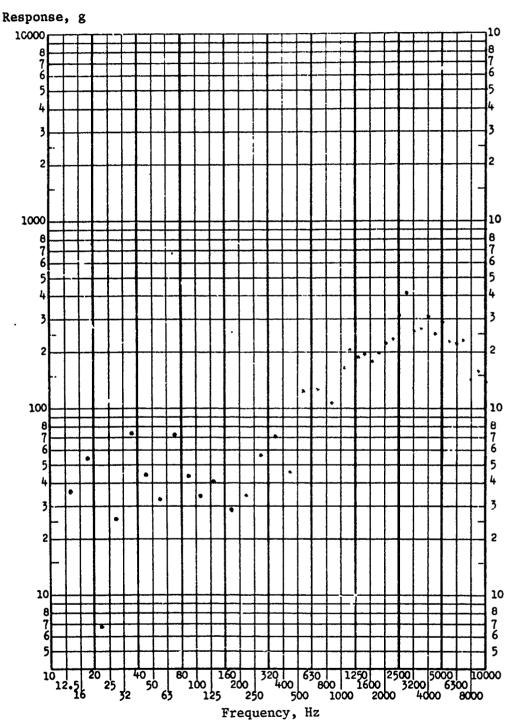
Figure 26 (cont)



Bench Shock Test - Stage II/III Separation, Run 26 Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 26 (cont)

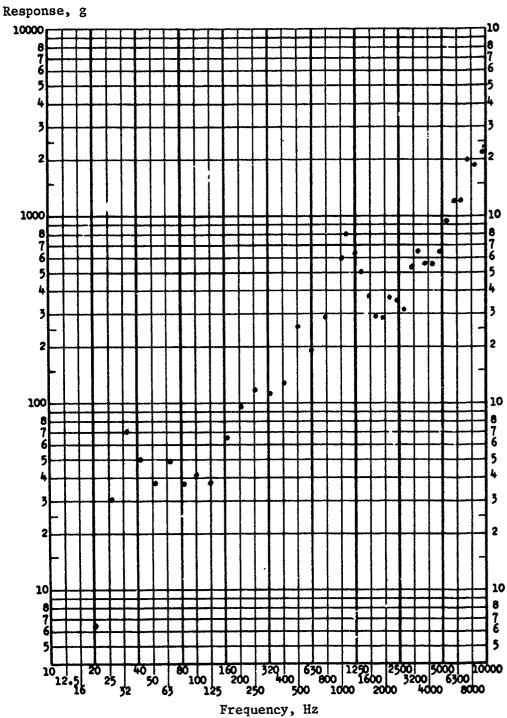
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Bench Shock Test - Stage II/III Separation, Run 26 Measurement No. 15 - Lateral axis truss top near longeron attach point

Figure 26 (concl)

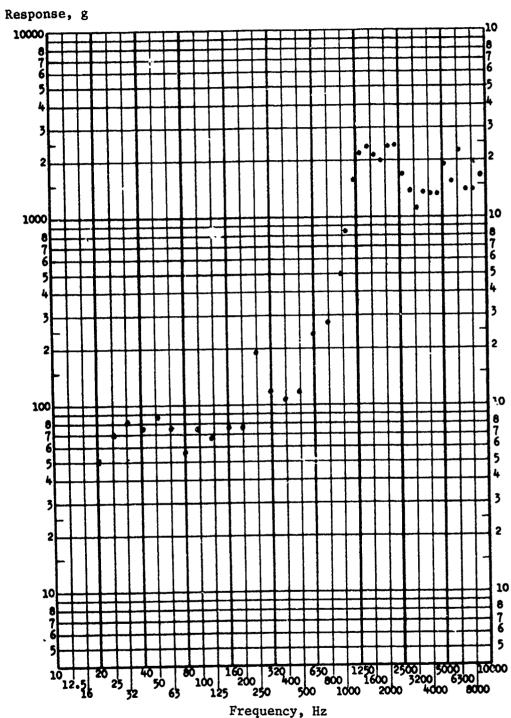
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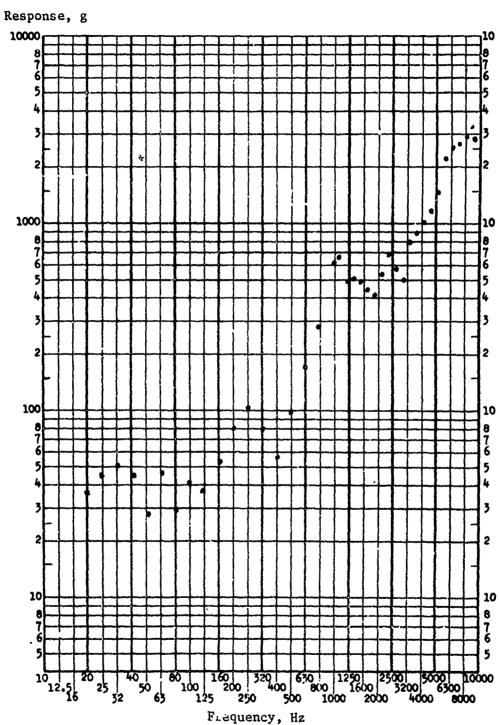
Bench Shock Test - Stage II/III Separation, Run 27 \_\_ Measurement No. 1 - Longitudinal axis longeron near station 133 TO THE REPORT OF THE PROPERTY OF THE PROPERTY

Figure 27 Run 27 Shock Response Spectrum



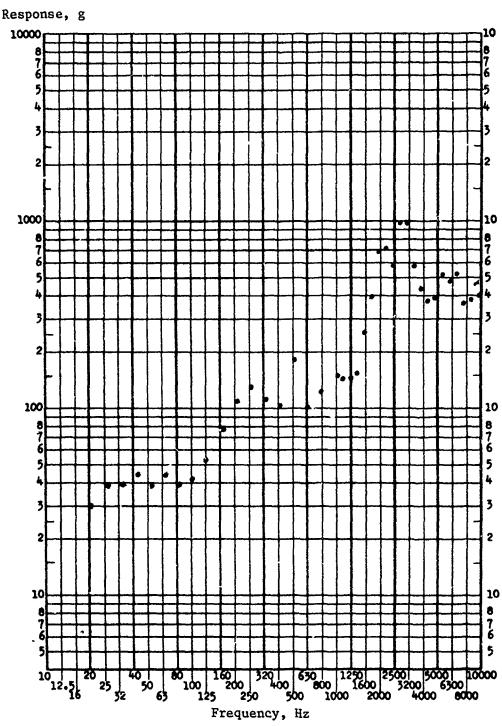
Bench Shock Test - Stage II/III Separation, Run 27 \_ Measurement No. 2 - Tangential axis longeron near station 133

Figure 27 (cont)



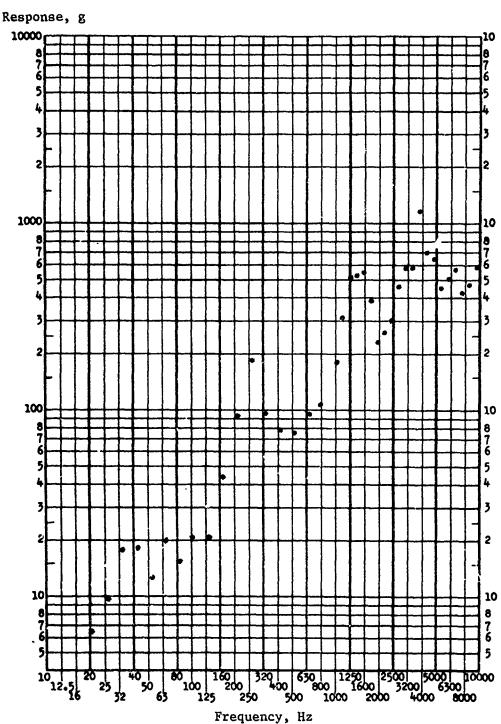
Bench Shock Test - Stage II/III Separation, Run 27 \_\_ Measurement No. 3 - Radial axis longeron near station 133

Figure 27 (cont)



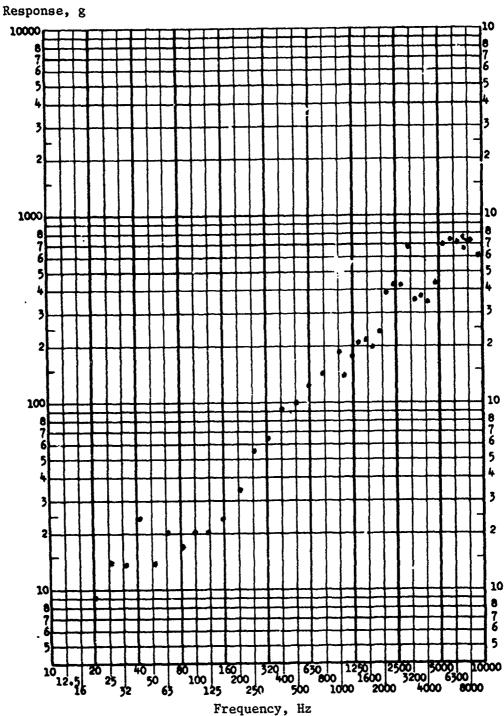
Bench Shock Test - Stage II/III Separation, Run 27 \_\_ Measurement No. 4 - Longitudinal exis longeron near station 117

Figure 27 (cont)



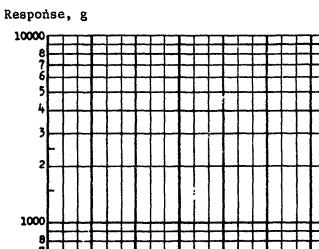
Bench Shock Test - Stage II/III Separation, Run 27 Measurement No. 5 - Tangential axis longeron near station 117

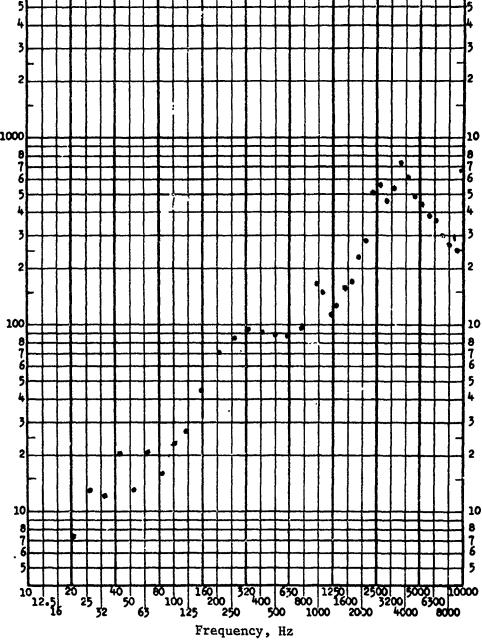
Figure 27 (cont)



Bench Shock Test - Stage II/III Separation, Run 27 \_ Measurement No. 6 - Radial axis longeron near station 117

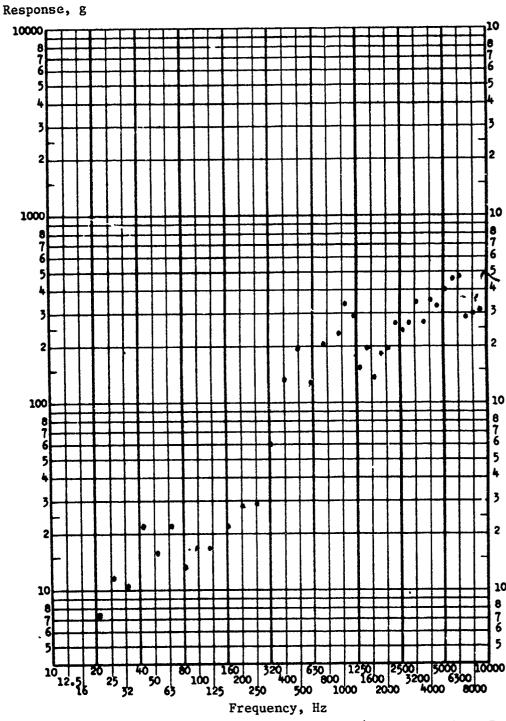
Figure 27 (cont)





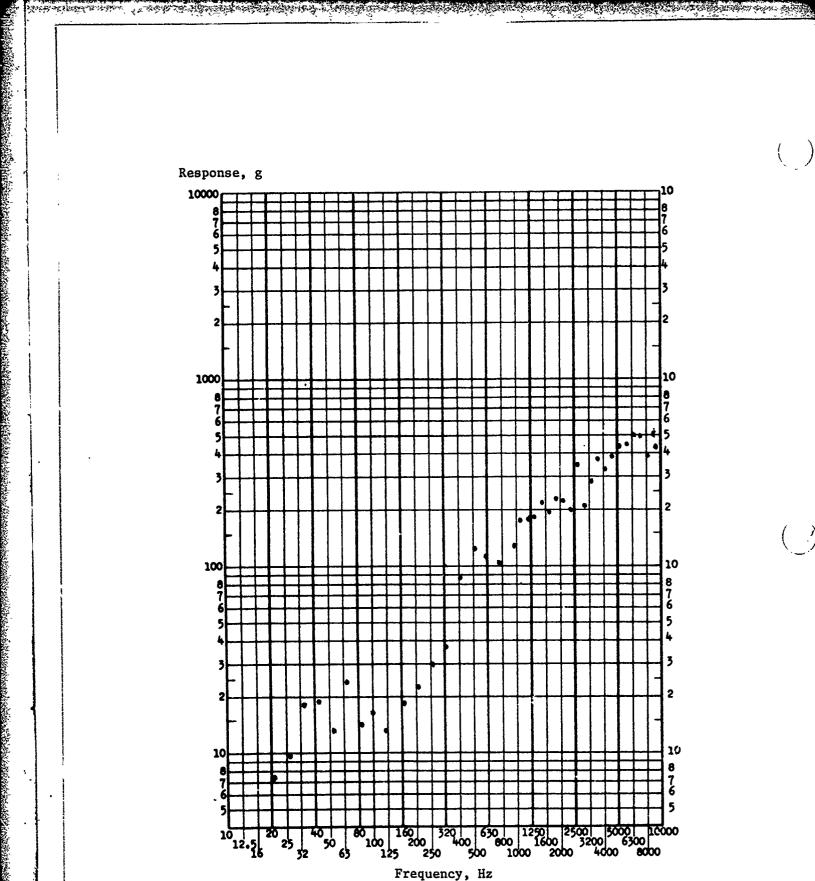
Bench Shock Test - Stage II/III Separation, Run 27 Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 27 (cont)



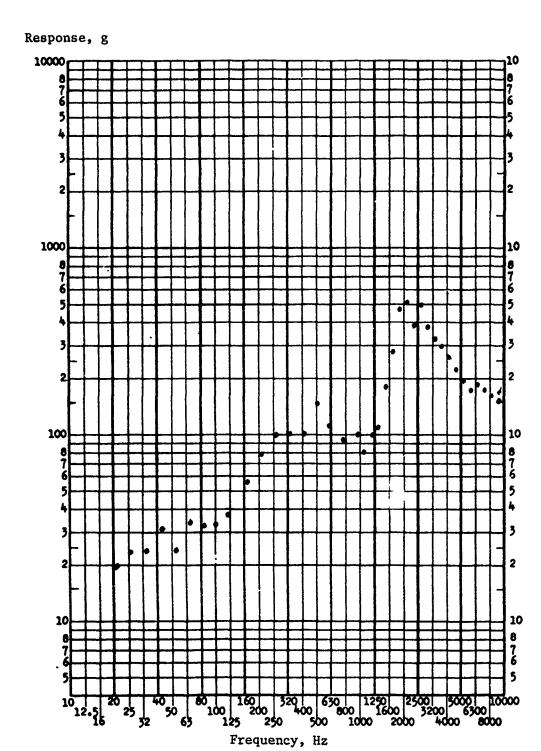
Bench Shock Test - Stage II/III Separation, Run 27 \_\_ Measurement No. 8 - Tangential axis longeron near station 77

Figure 27 (cont)



Bench Shock Test - Stage II/III Separation, Run 27 \_\_ Measurement No. 9 - Radial axis longeron near station 77

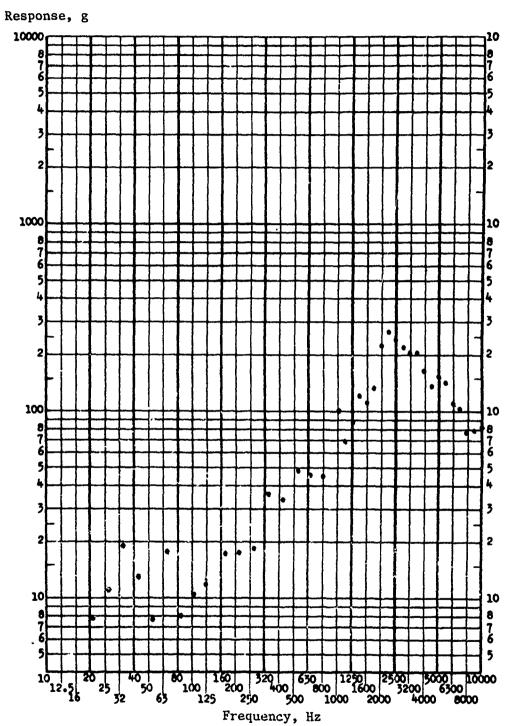
Figure 27 (cont)



Bench Shock Test - Stage II/III Separation, Run 27 \_\_\_\_\_\_ Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

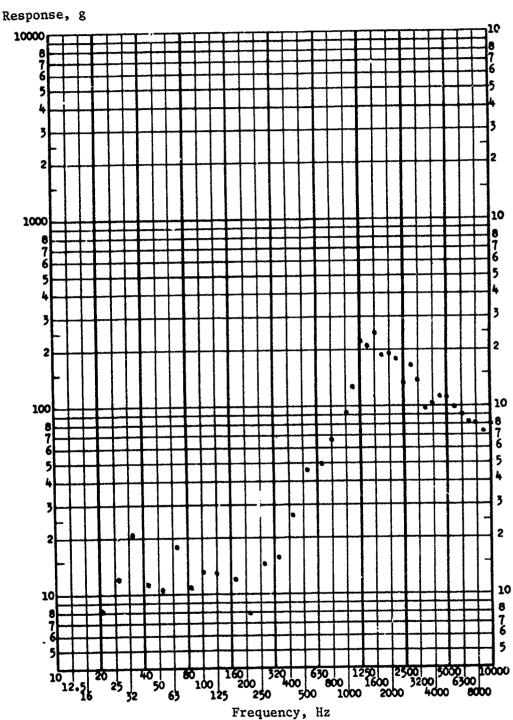
Figure 27 (cont)

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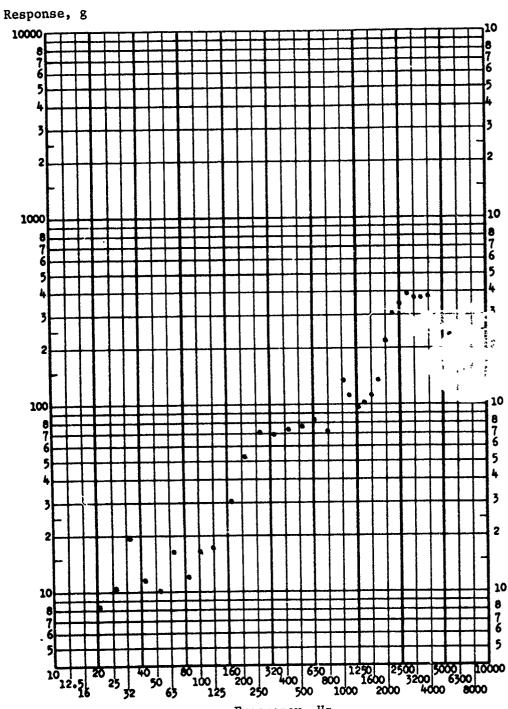
Bench Shock Test - Stage II/III Separation, Run 27 \_ Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 27 (cont)



Bench Shock Test - Stage II/III Separation, Run 27 \_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

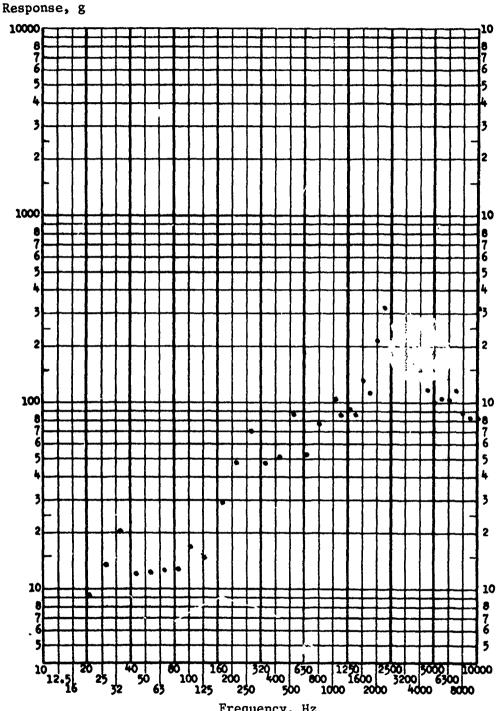
Figure 27 (cont)



Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 27 \_
Measurement No. 13 - Longitudinal axis truss top
near longeron attach point

Figure 27 (cont)

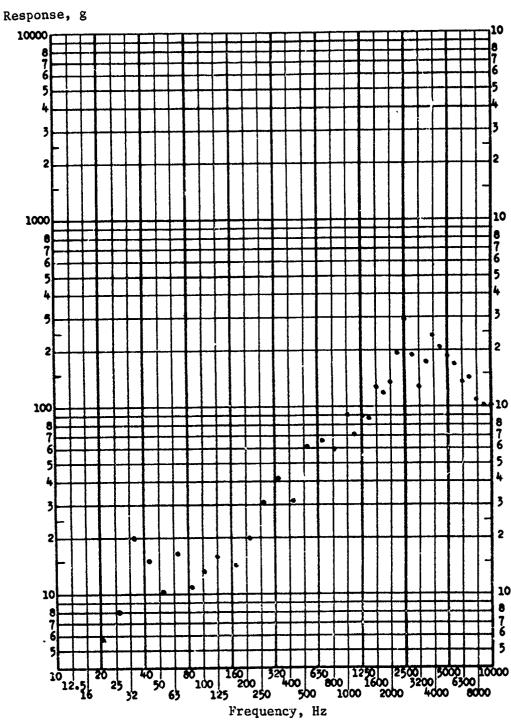


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 27 \_

Measurement No. 14 - Lateral axis truss top near
longeron attach point

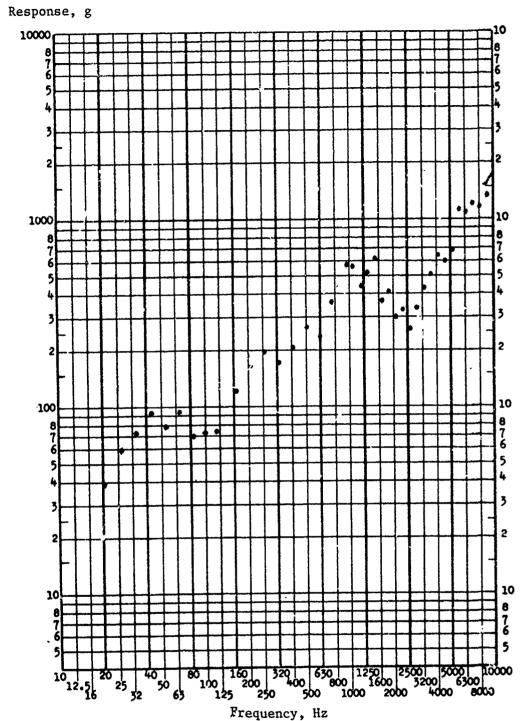
Figure 27 (cont)



Bench Shock Test - Stage II/III Separation, Run 27 \_ Measurement No. 15 - Lateral axis truss top near longeron attach point

Figure 27 (concl)

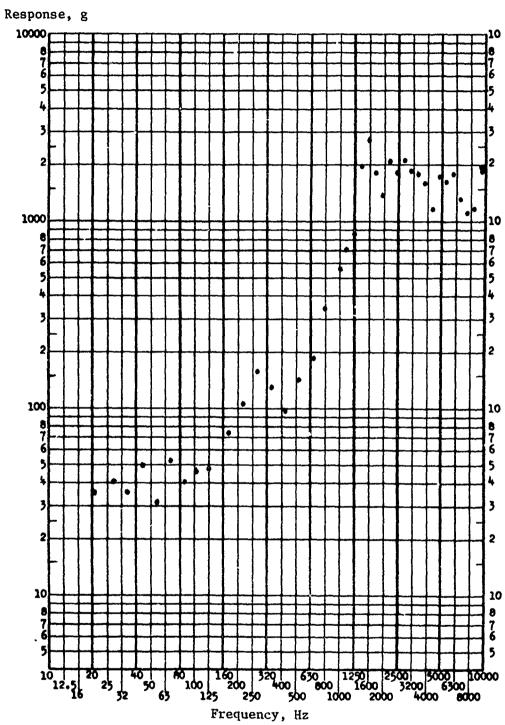
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Bench Shock Test - Stage II/III Separation, Run 28 \_\_ Measurement No. 1 - Longitudinal axis longeron near station 133

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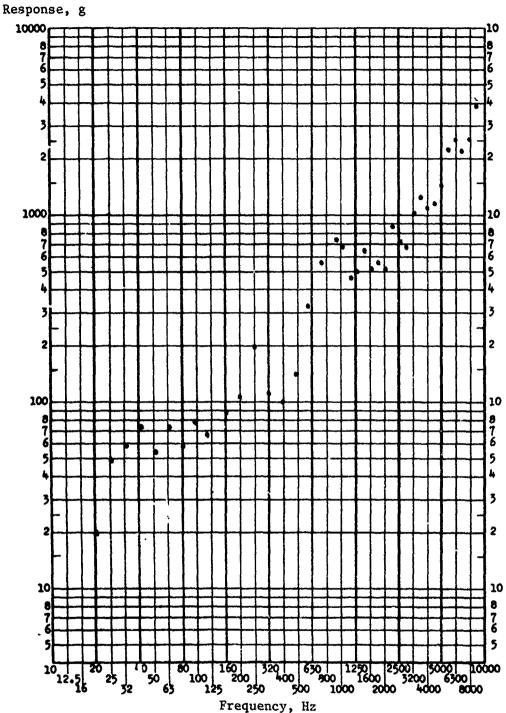
Figure 28 Run 28 Shock Response Spectrum



Bench Shock Test - Stage II/III Separation, Run 28 \_\_ Measurement No. 2 - Tangential axis longeron near station 133

Figure 28 (cont)

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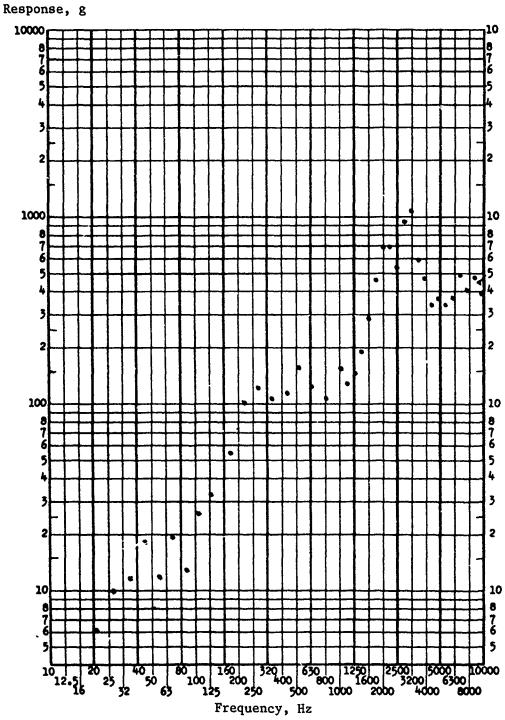
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Bench Shock Test - Stage II/III Separation, Run 28 \_\_\_ Measurement No. 3 - Radial axis longeron near station 133

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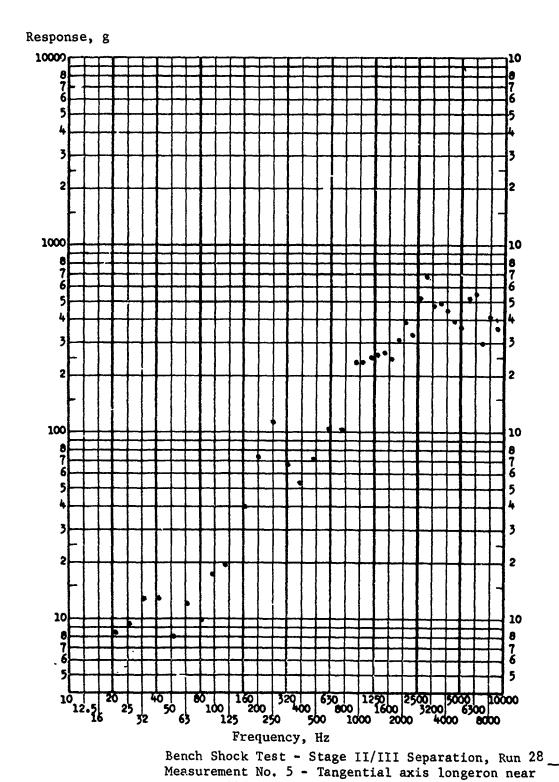
Figure 28 (cont)

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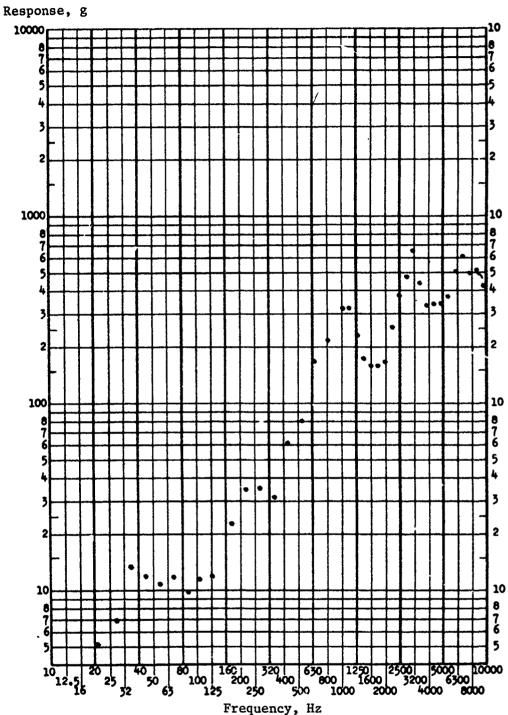
Bench Shock Test - Stage II/III Separation, Run 28 \_ Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 28 (cont)



station 117

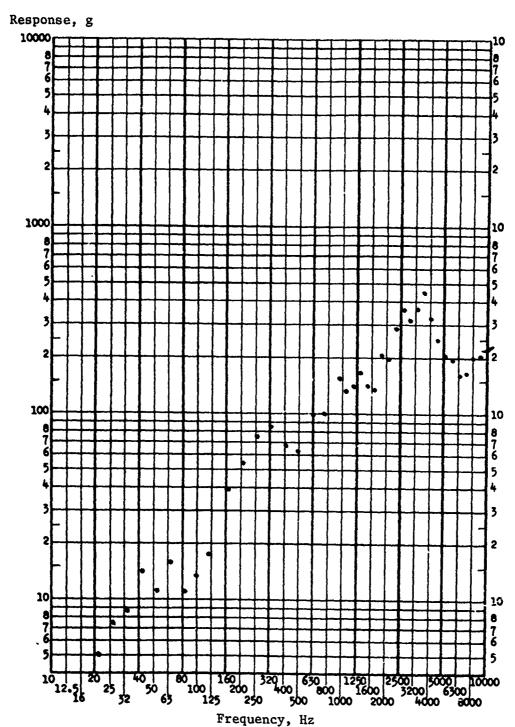
Figure 28 (cont)



Bench Shock Test - Stage II/III Separation, Run 28\_\_\_ Measurement No. 6 - Radial axis longeron near station 117

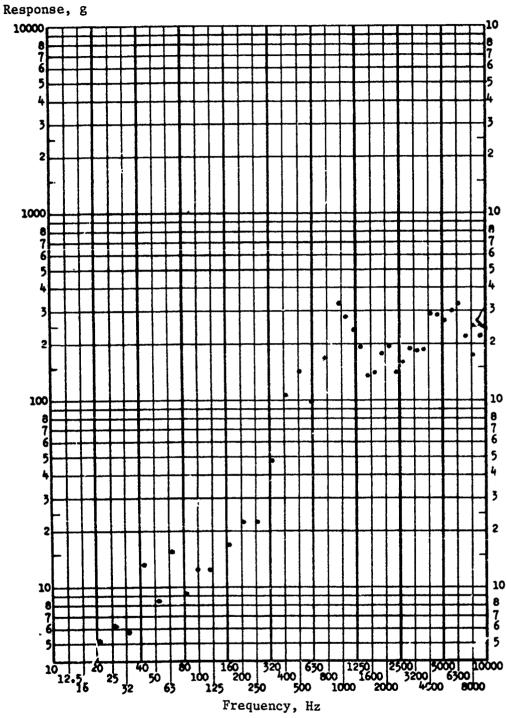
Figure 28 (cont)

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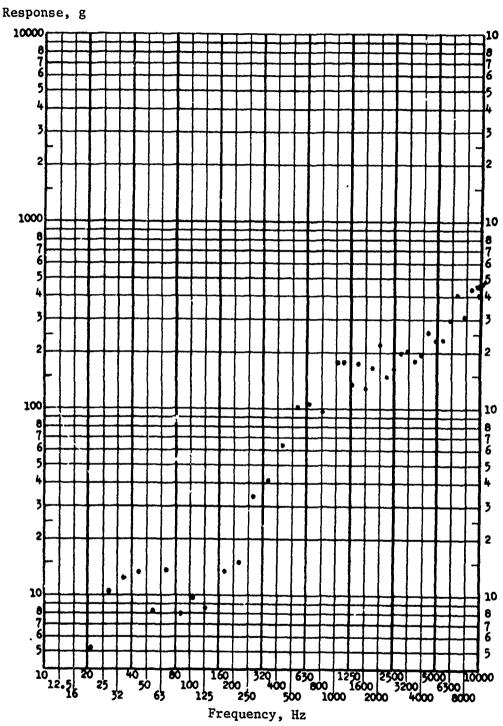
Bench Shock Test - Stage II/III Separation, Run 28\_ Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 28 (cont)



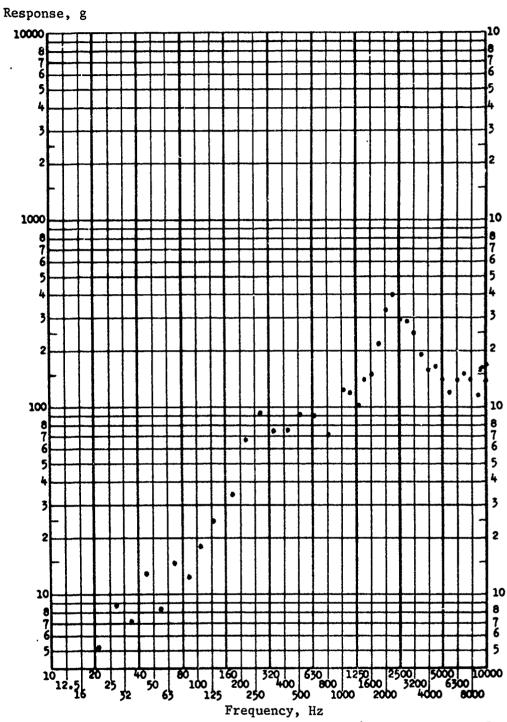
Bench Shock Test - Stage II/III Separation, Run 28 \_\_\_\_ Measurement No. 8 - Tangential axis longeron near station 77

Figure 28 (cont)



Bench Shock Test - Stage II/III Separation, Run 28 \_\_\_ Measurement No. 9 - Radial axis longeron near station 77

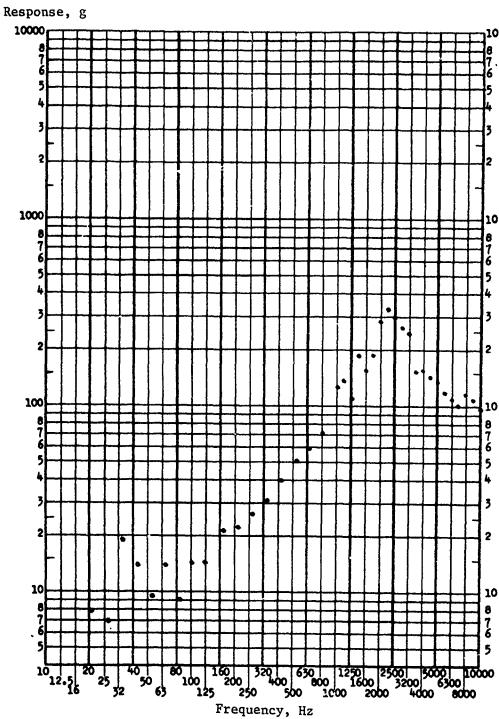
Figure 28 (cont)



Bench Shock Test - Stage II/III Separation, Run 28 \_\_\_\_ Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

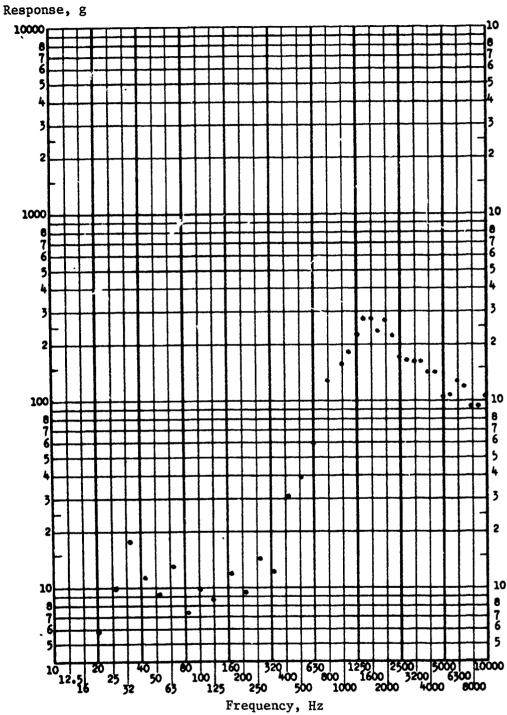
Figure 28 (cont)

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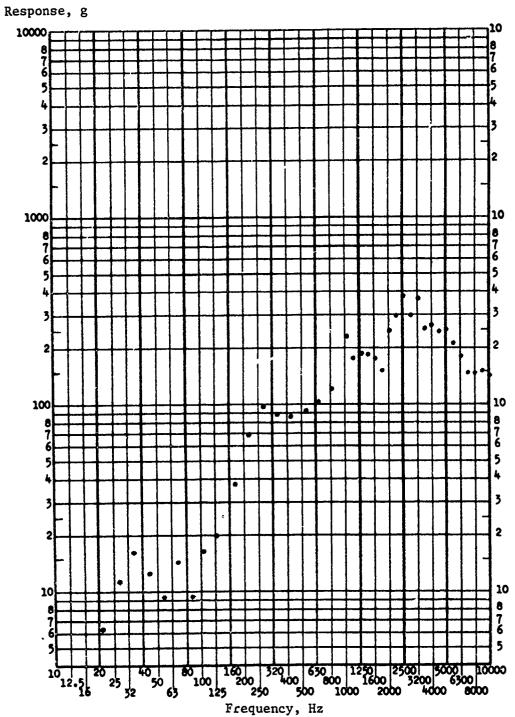
Bench Shock Test - Stage II/III Separation, Run 28 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 28 (cont)



Bench Shock Test - Stage II/III Separation, Run 28 \_\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 28 (cont)



Bench Shock Test - Stage II/III Separation, Run 28 \_ Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 23 (cont)

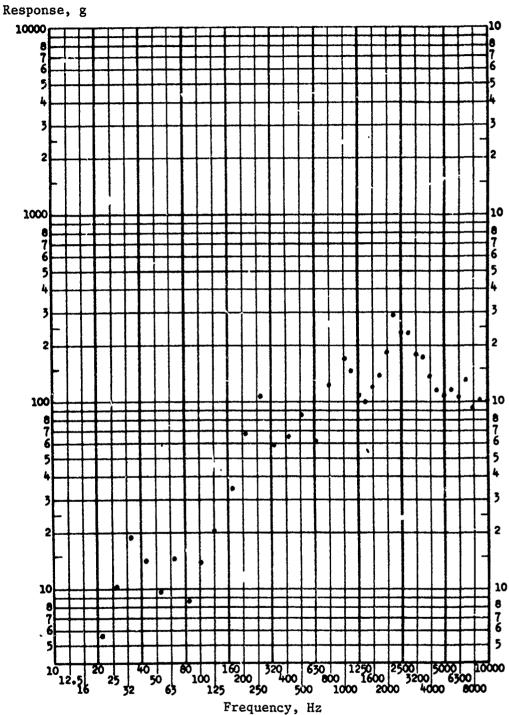
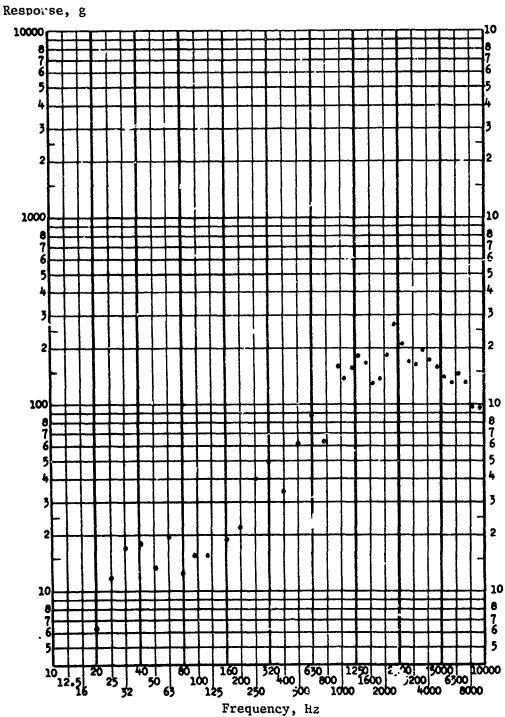


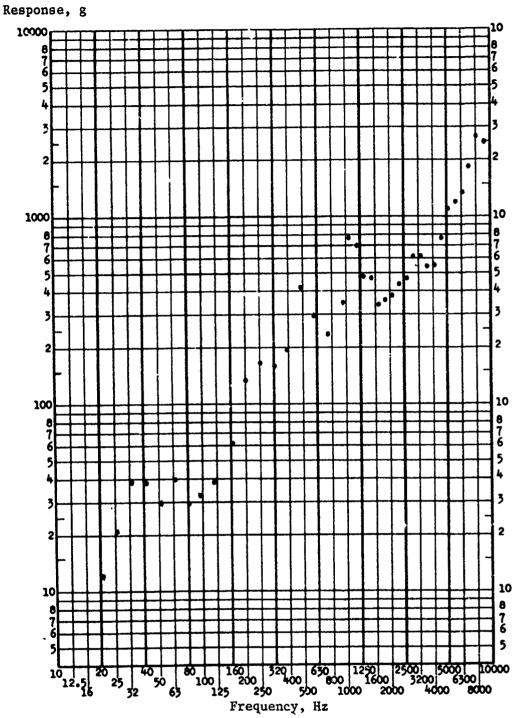
Figure 28 (cont)



Bench Shock Test - Stage II/III Separation, Run 28 \_\_\_\_ Measurement No. 15 - Lateral axis truss top near longeron attach point

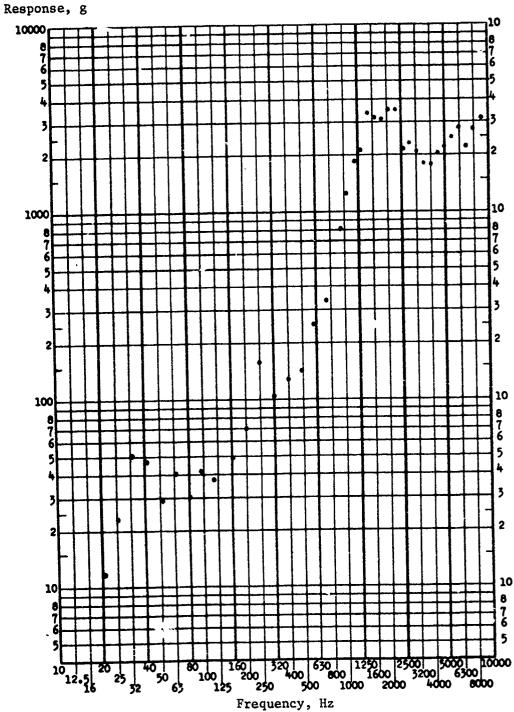
Figure 28 (concl)

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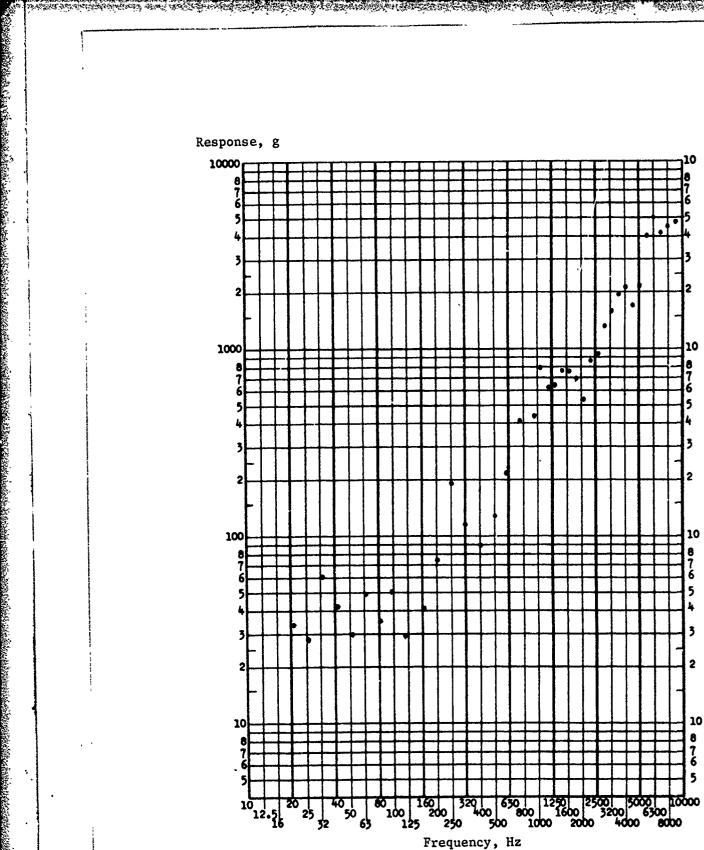
Bench Shock Test - Stage II/III Separation, Run 29 \_\_ Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 29 Run 29 Shock Response Spectrum



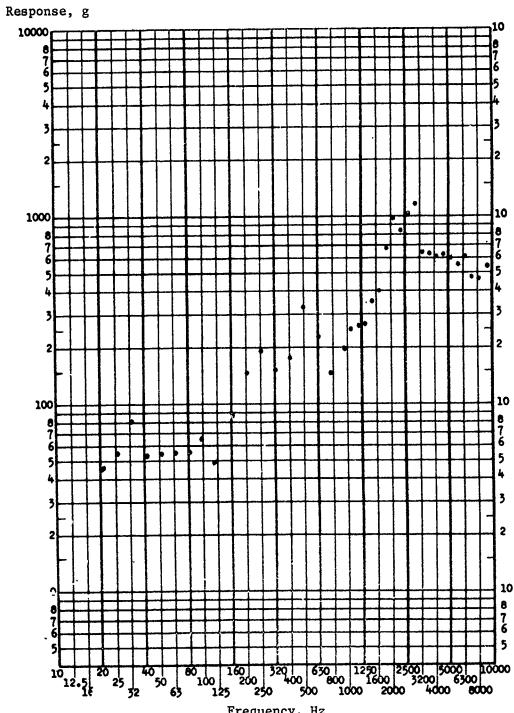
Bench Shock Test - Stage II/III Separation, Run 29 \_\_ Measurement No. 2 - Tangential axis longeron near station 133

Figure 29 (cont)



Bench Shock Test - Stage II/III Separation, Run 29 \_\_ Measurement No. 3 - Radial axis longeron near station 133

Figure 29 (cont)

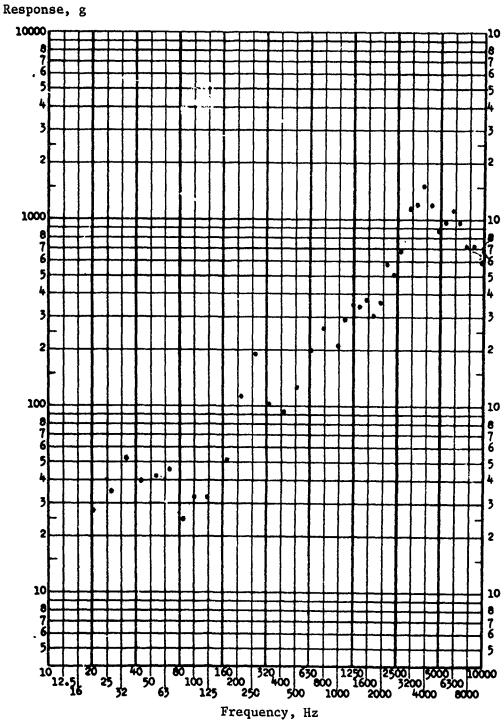


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 29\_
Measurement No. 4 - Longitudinal axis longeron near station 117

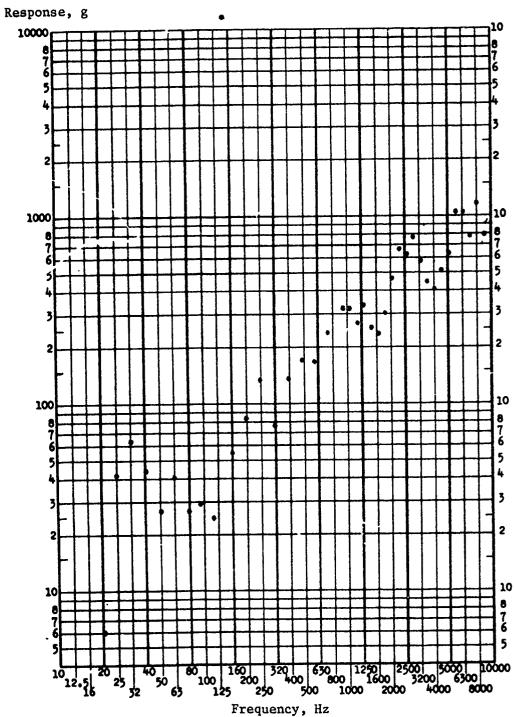
Figure 29 (cont)

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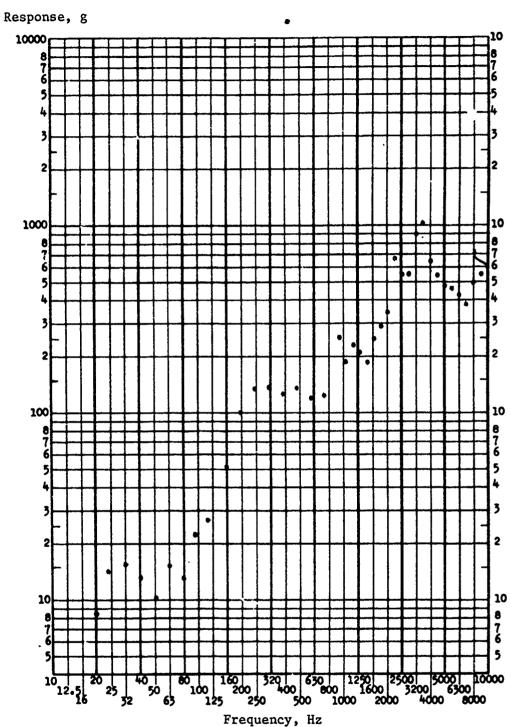
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Figure 29 (cont)



Bench Shock Test - Stage II/III Separation, Run 29 \_\_ Measurement No. 6 - Radial axis longeron near station 117

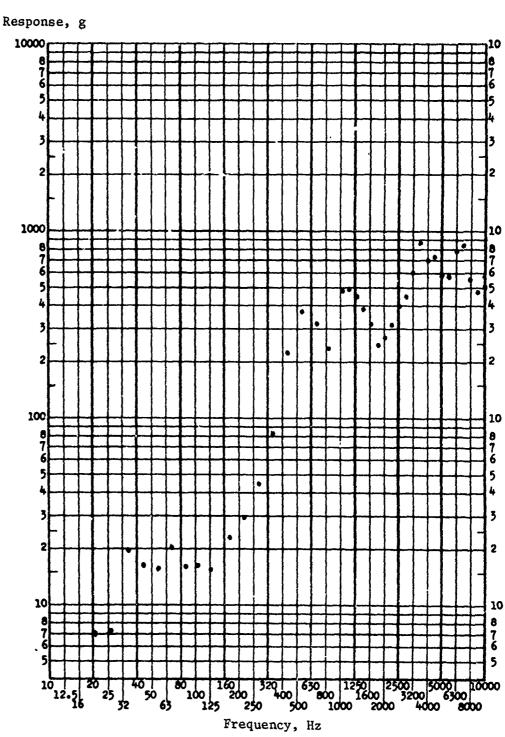
Figure 29 (cont)



Bench Shock Test - Stage II/III Separation, Run 29 \_\_ Measurement No. 7 - Longitudinal axis longeron near station 77

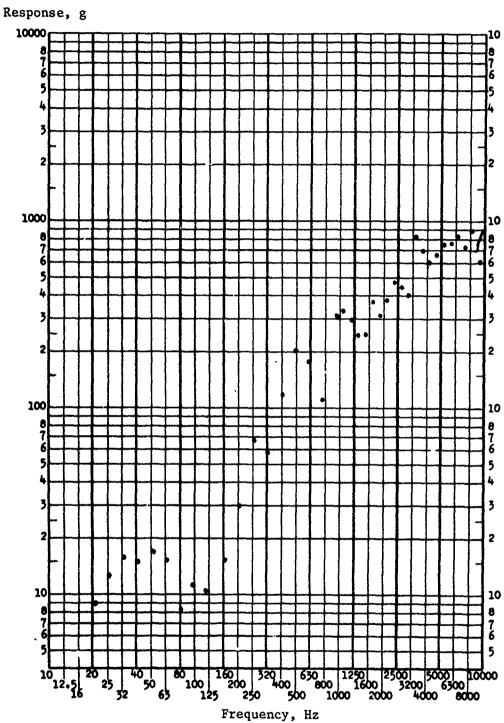
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Figure 29 (cont)



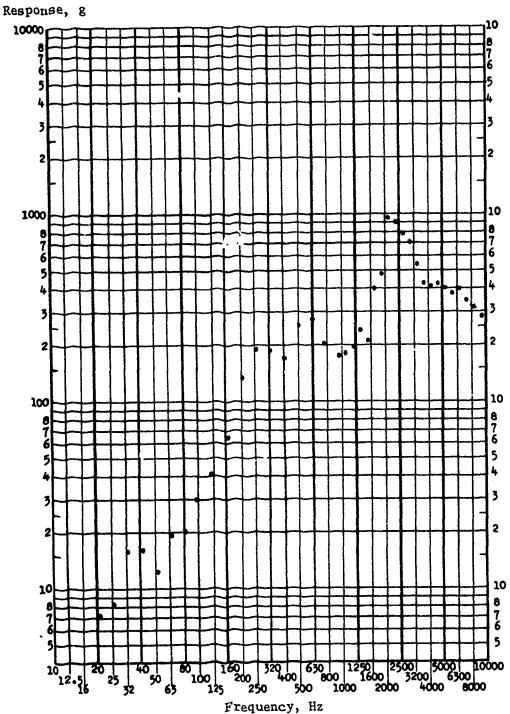
Bench Shock Test - Stage II/III Separation, Run 29 \_ Measurement No. 8 - Tangential axis longeron near station 77

Figure 29 (cont)



Bench Shock Test - Stage II/III Separation, Run 29 \_\_ Measurement No. 9 - Radial axis longeron near station 77

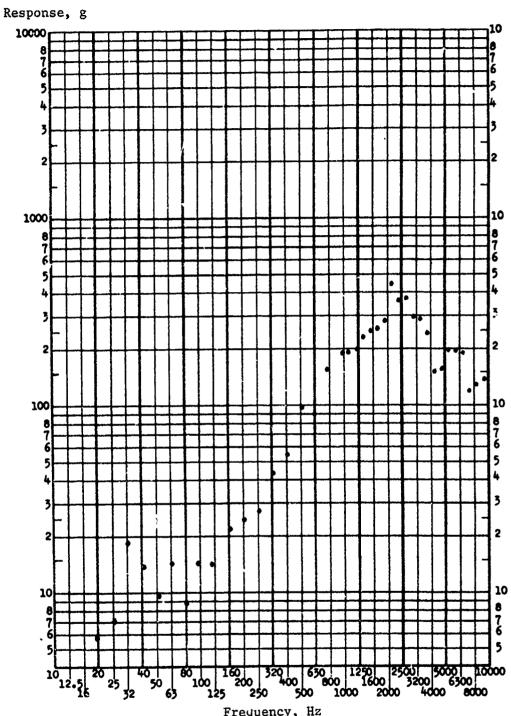
Figure 29 (cont)



Bench Shock Test - Stage II/III Separation, Run 29 \_\_ Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 29 (cont)

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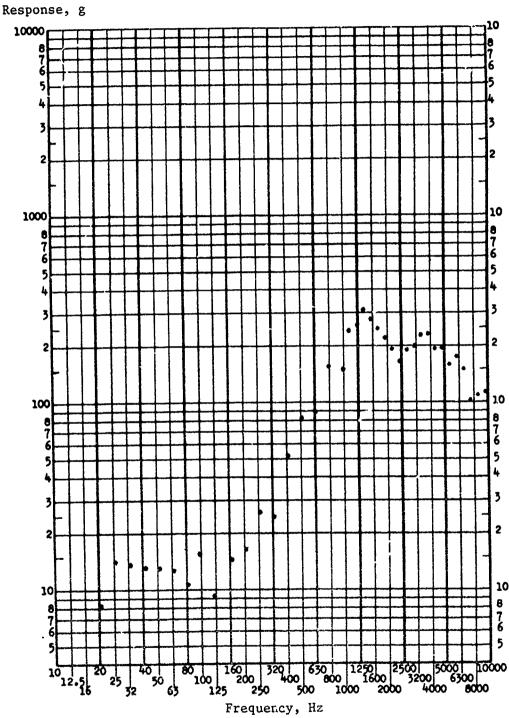


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Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 29 \_\_
Measurement No. 11 - Lateral axis truss bottom near
station 114 attach point

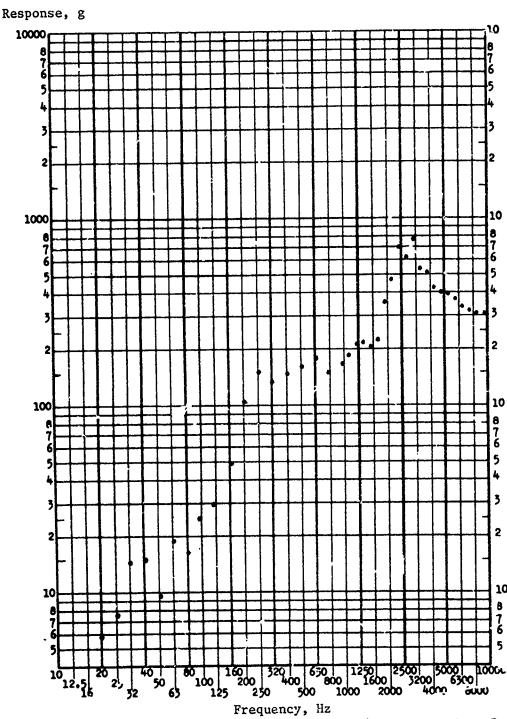
Figure 29 (cont)



Bench Shock Test - Stage II/III Separation, Run 29 \_\_\_\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 29 (cont)

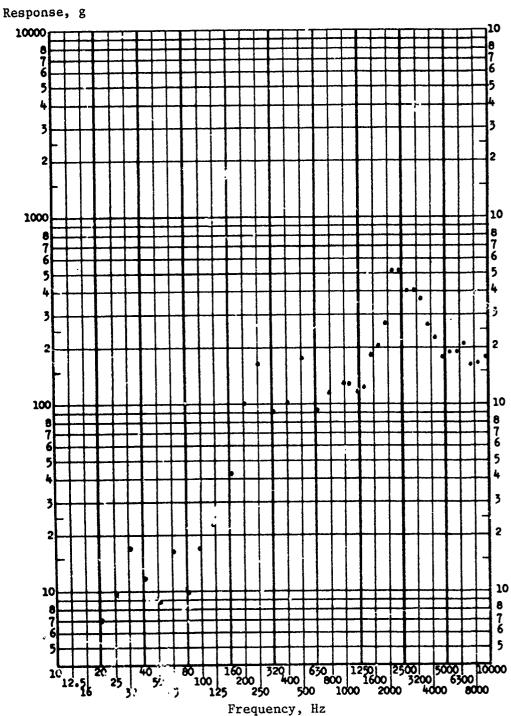
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Bench Shock Test - Stage II/III Separation, Run 29 \_\_ Measurement No. 13 - Longitudinal axis truss top near longeron attach point

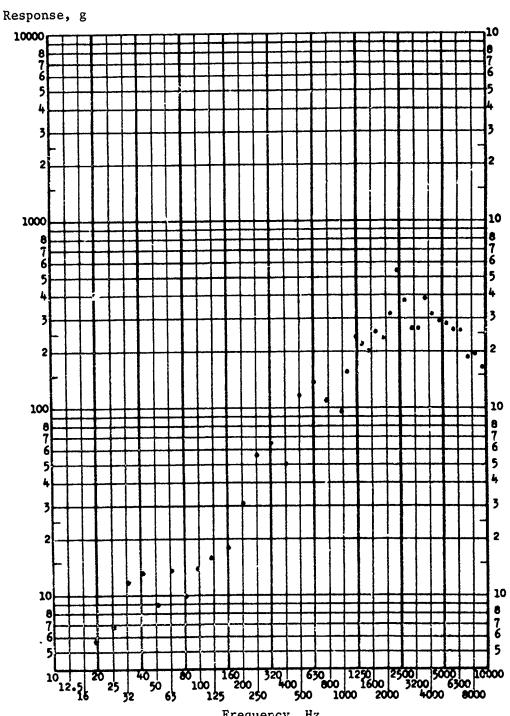
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Figure 29 (cont)



Bench Shock Test - Stage II/III Separation, Run 29 \_\_ Measurement No. 14 - Lateral axis truss top near longeron attach point

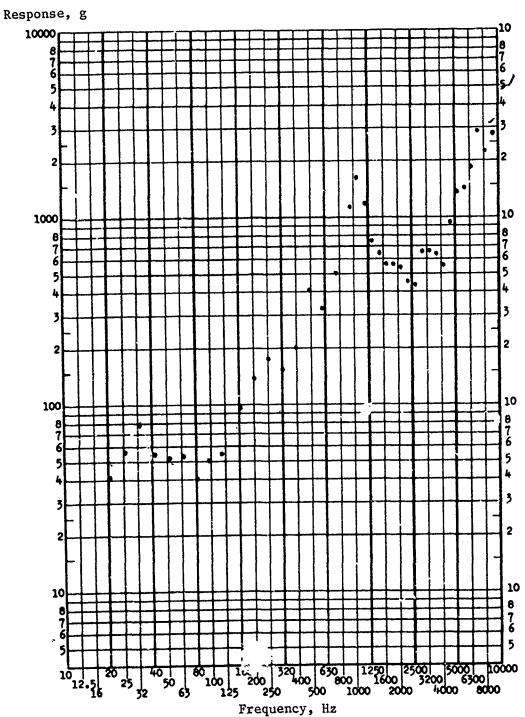
Figure 29 (cort)



Frequency, Hz
Bench Shock Test - Stage II/III Separation, Run 29 \_\_
Measurement No. 15 - Lateral axis truss top near
longeron attach point

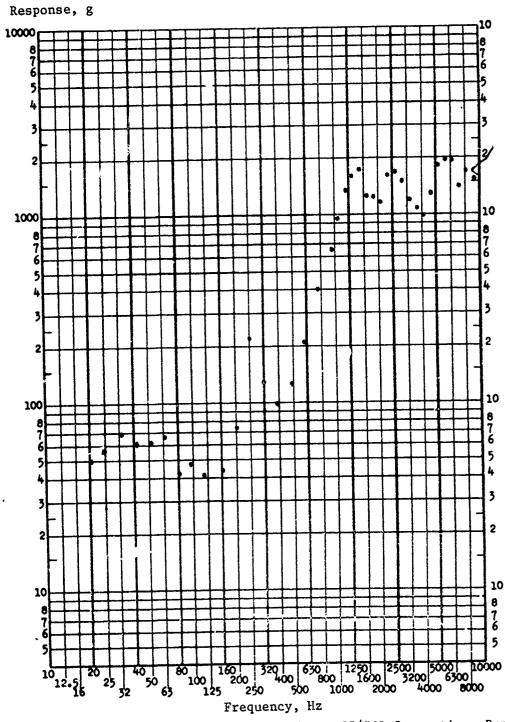
Figure 29 (concl)

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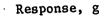
Bench Shock Test - Stage II/III Separation, Run 30 Measurement No. i - Longitudinal axis longeron near station 133

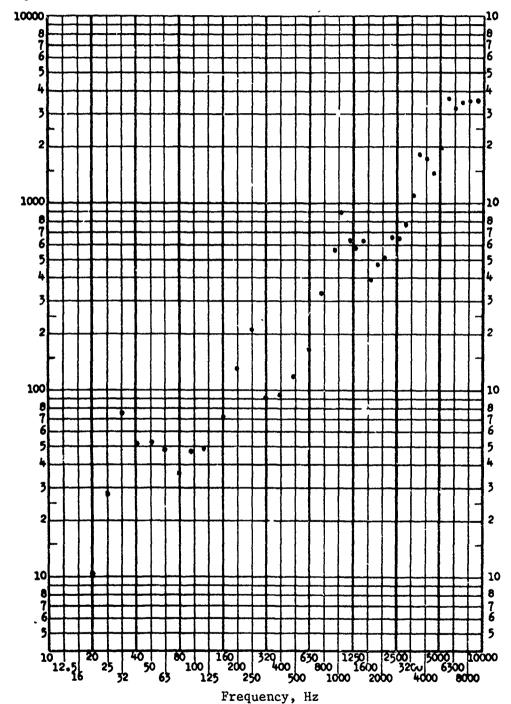
Figure 30 Run 30 Shock Response Spectrum



Bench Shock Test - Stage II/III Separation, Run 30 Measurement No. 2 - Tangential axis longeron near station 133

Figure 30 (cont)

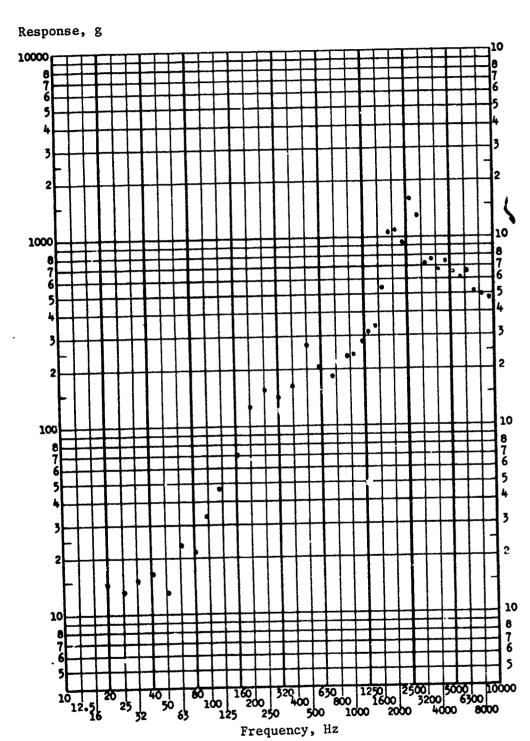




Bench Shock Test - Stage II/III Separation, Run 30 Measurement No. 3 - Radial axis longeron near station 133

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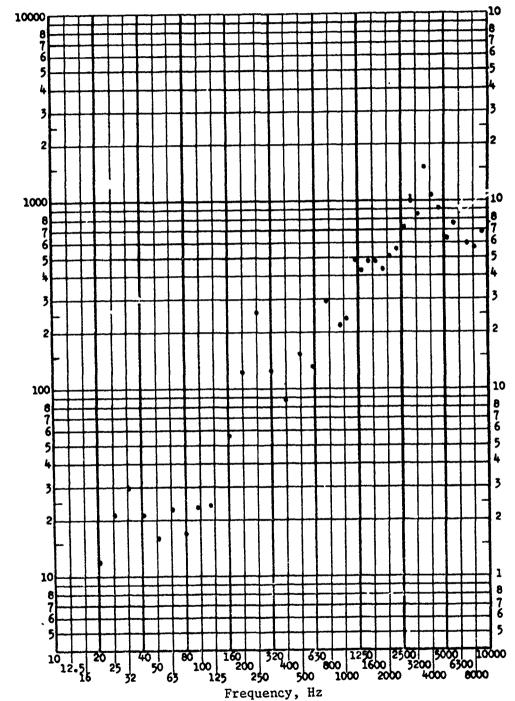
Figure 30 (cont)



Bench Shock Test - Stage II/III Separation, Run 30 Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 30 (cont)



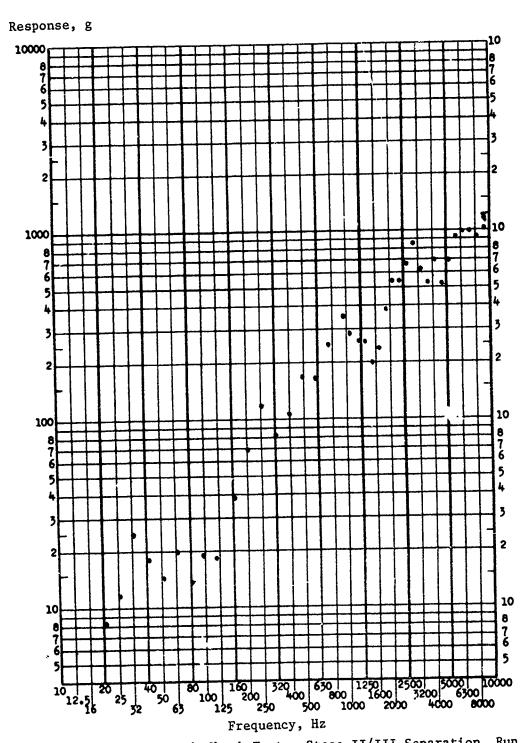


Bench Shock Test - Stage II/III Separation, Run 30 Measurement No. 5 - Tangential ax's longeron near station 117

Designation of the Commission of the Commission

Figure 30 (cont)

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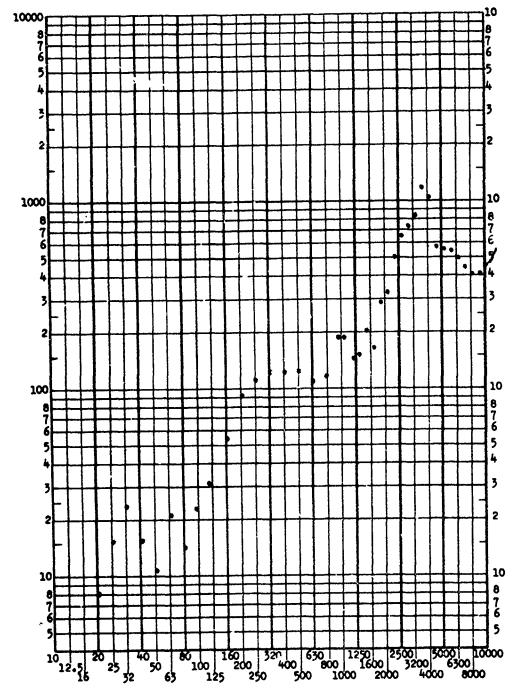


Bench Shock Test - Stage II/III Separation, Run 30 Measurement No. 6 - Radial axis longeron near station 117

Figure 30 (cont)



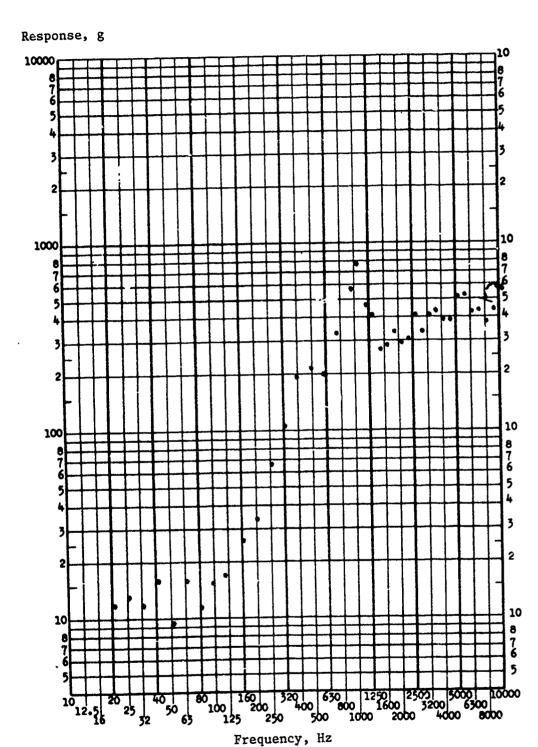
and the second s



Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 30 Measurement No. 7 - Longitudinal axis longeron near station 77

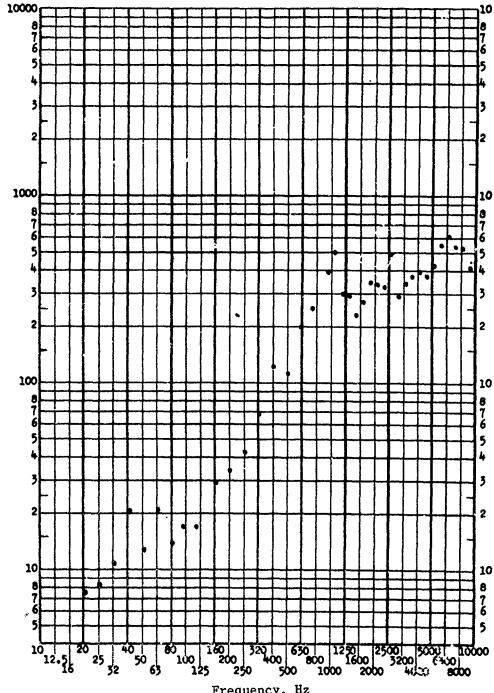
Figure 30 (cont)



Bench Shock Test - Stage II/III Separation, Run 30 Measurement No. 8 - Tangential axis longeron near station 77

Figure 30 (cont)

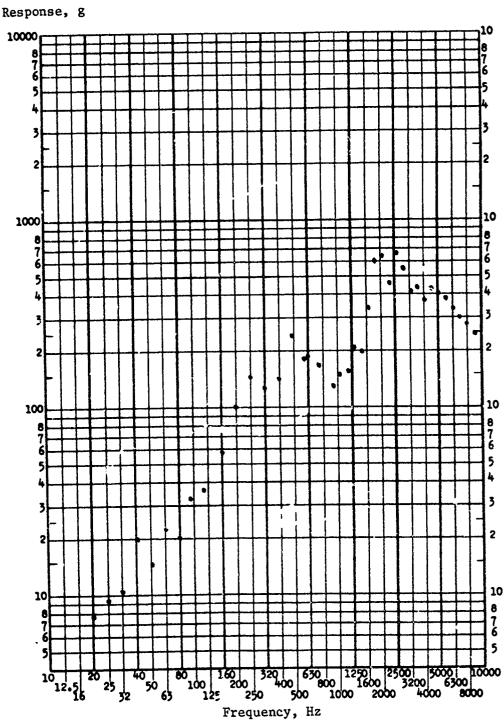




Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 30 Measurement No. 9 - Radial axis longeron near station 77

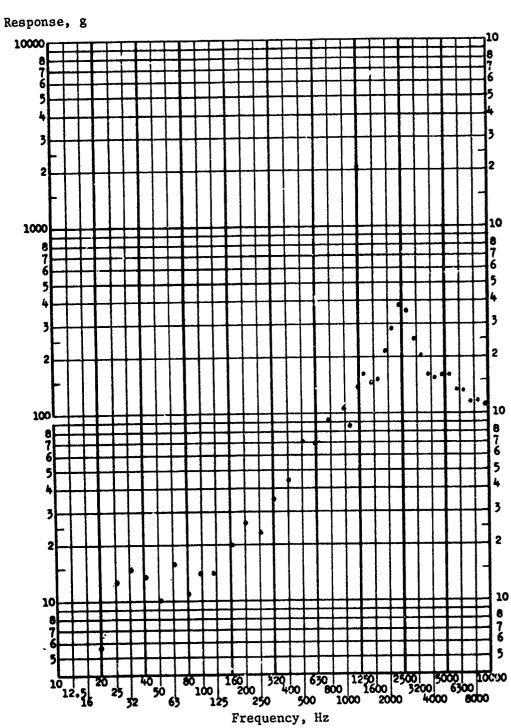
Figure 30 (cont)



Bench Shock Test - Stage II/III Separation, Run 30 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 30 (cont)

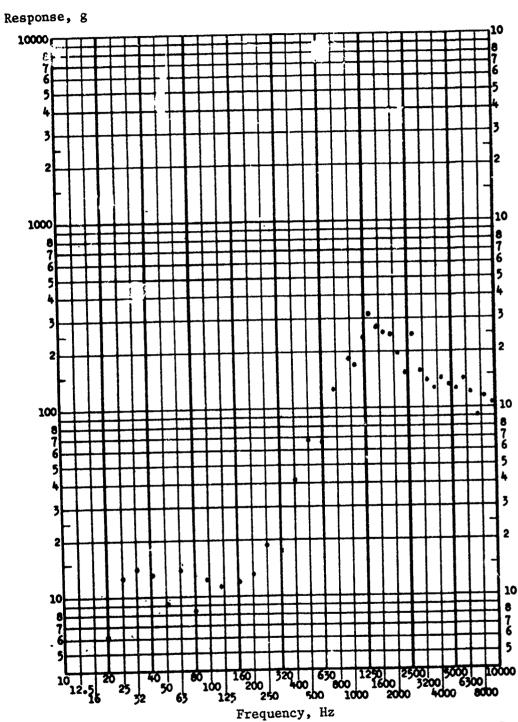
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Bench Shock Test - Stage II/III Separation, Run 30 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

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Figure 30 (cont)

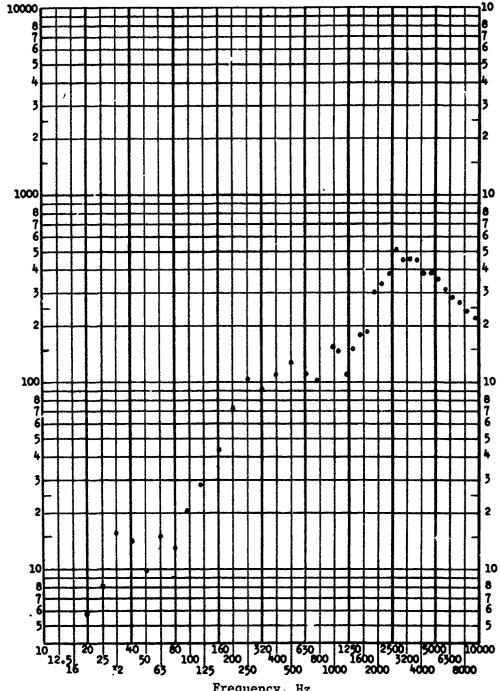


Bench Shock Test - Stage II/III Separation, Run 30 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 30 (cont)

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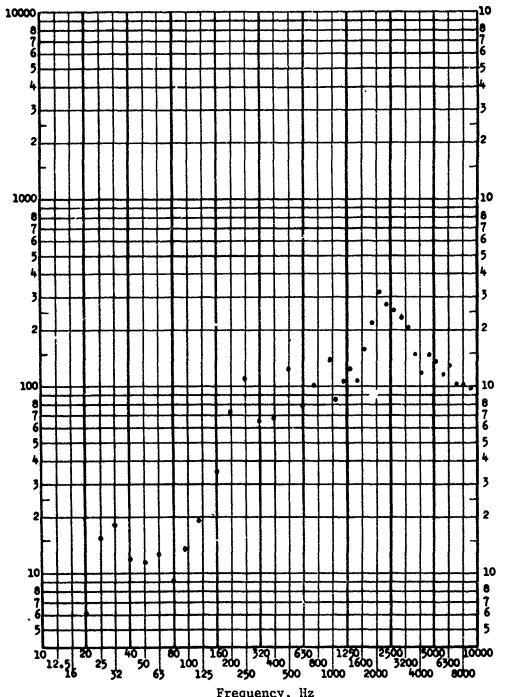
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 30 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

ANTHE CONTROL OF THE STREET OF

Figure 30 (cont)





Frequency, Hz

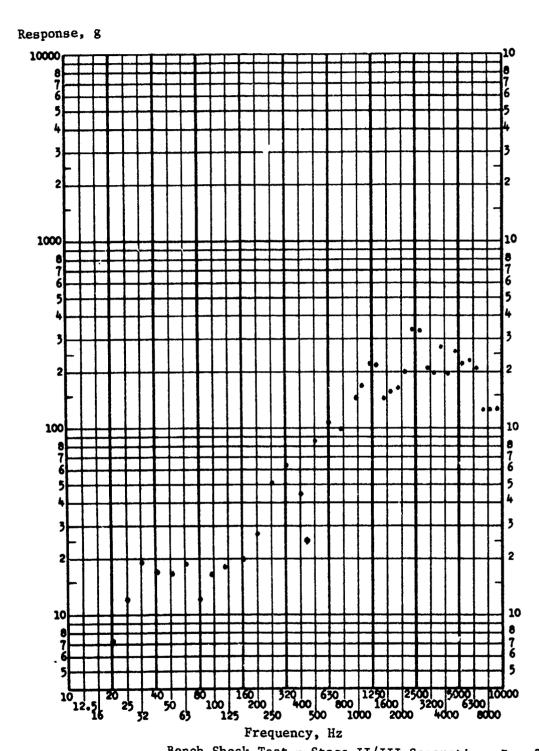
Bench Shock Test - Stage II/III Separation, Run 30

Measurement No. 14 - Lateral axis truss top near

longeron attach point

Figure 30 (cont)

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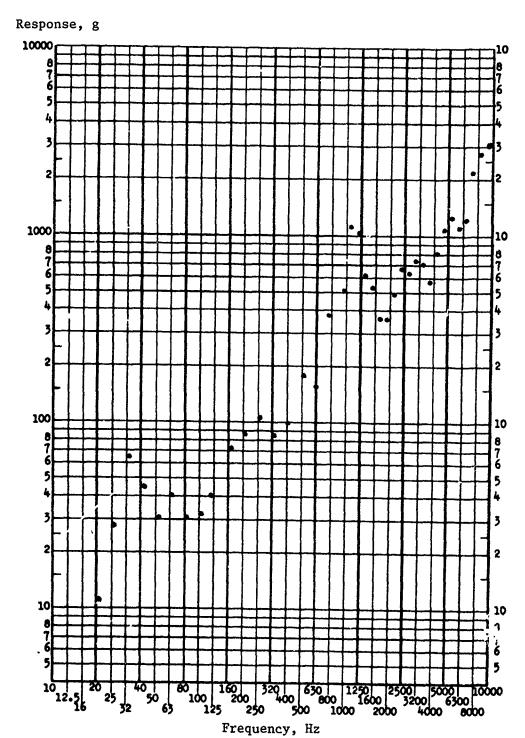
Bench Shock Test - Stage II/III Separation, Run 30 Measurement No. 15 - Lateral axis truss top near longeron attach point

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Figure 30 (concl)

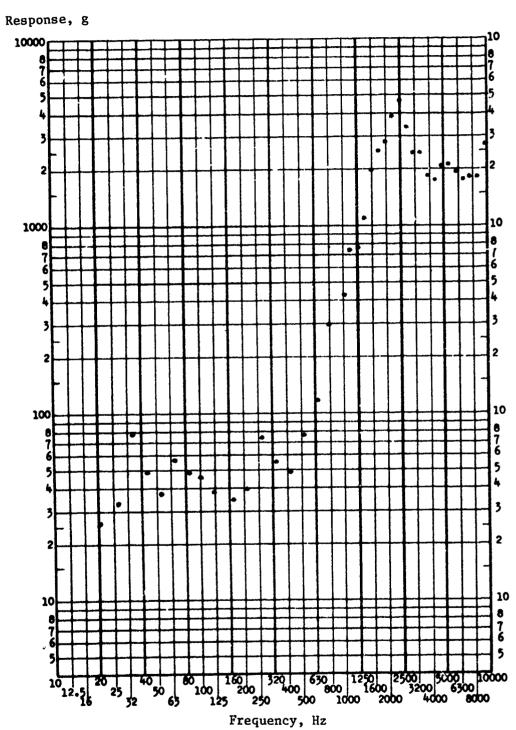
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Bench Shock Test - Stage II/III Separation, Run 31\_\_\_ Measurement No. 1 - Longitudinal axis longeron near station 133 Figure 31 Run 31 Shock Response Spectrum

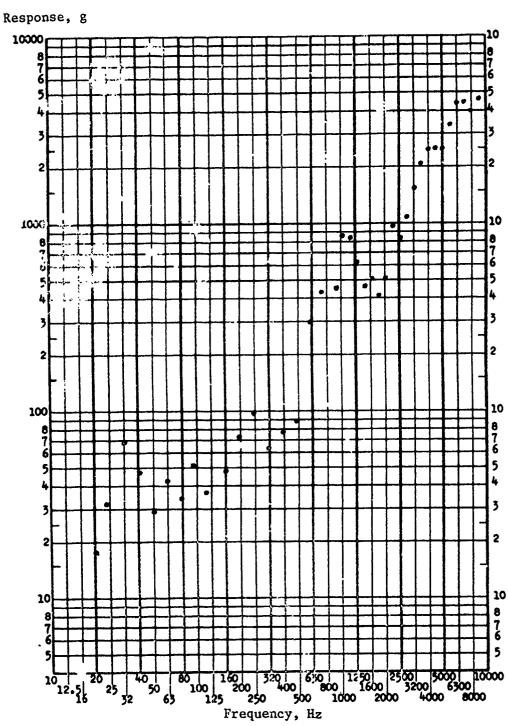
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Bench Shock Test - Stage II/III Separation, Run 31 \_\_ Measurement No. 2 - Tangential axis longeron near station 133

Figure 31 (cont)

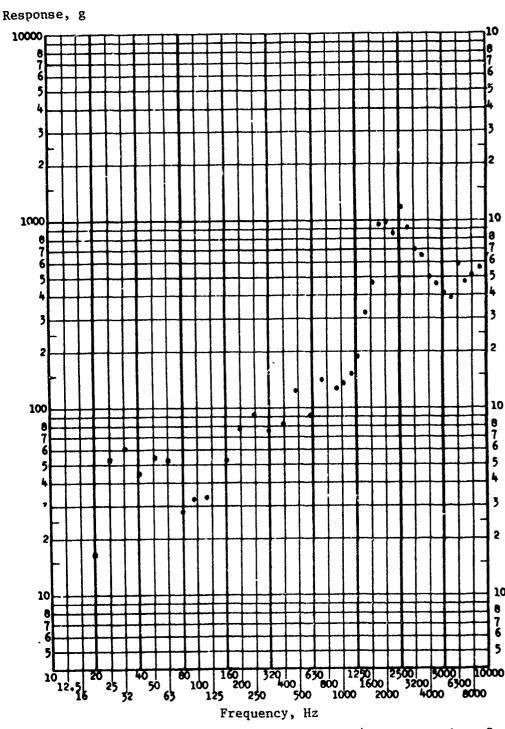
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Bench Shock Test - Stage II/III Separation, Run 31 \_\_\_\_ Measurement No. 3 - Radial axis longeron near station 133

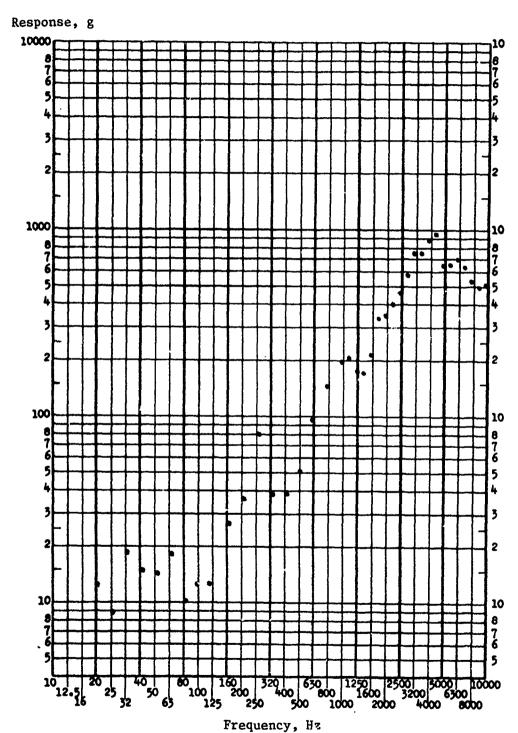
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Figure 31 (cont)



Bench Shock Test - Stage II/III Separation, Run 31 \_\_ Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 31 (cont)



Bench Shock Test - Stage II/III Separation, Run 31\_ Measurement No. 5 - Tangential axis longeron near station 117

Figure 31 (cont)

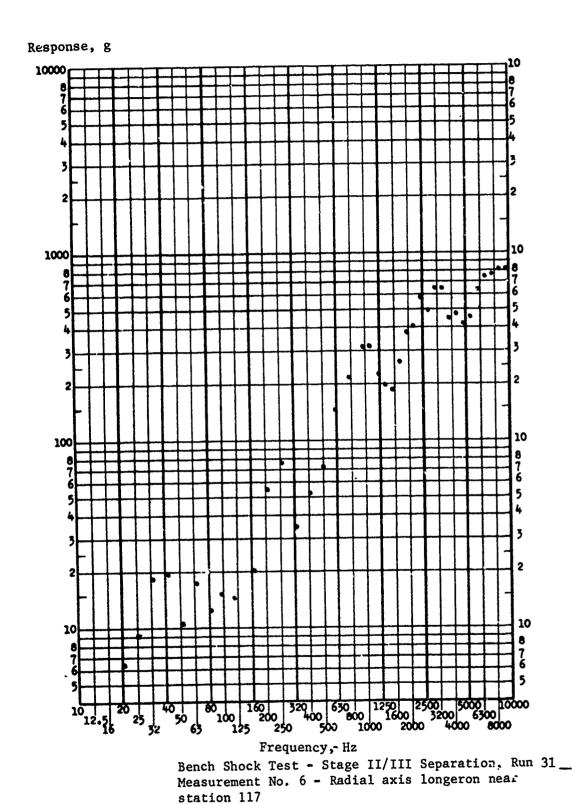


Figure 31 (cont)

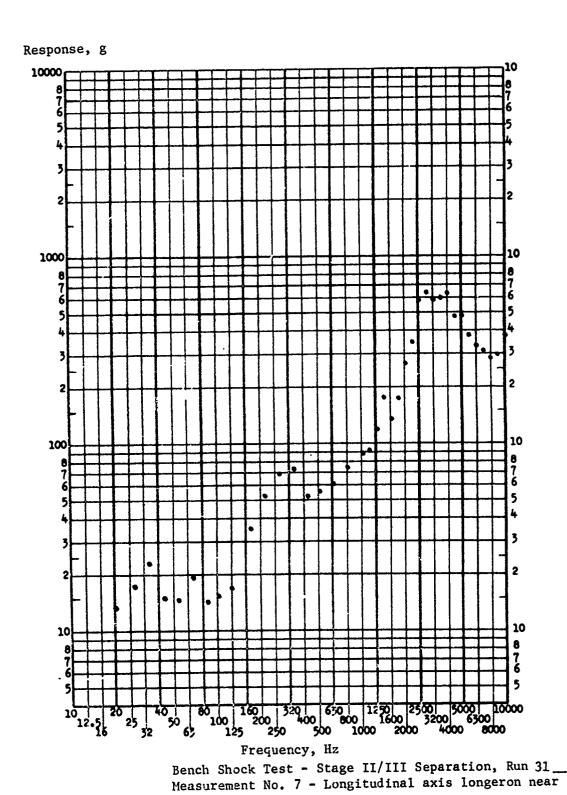
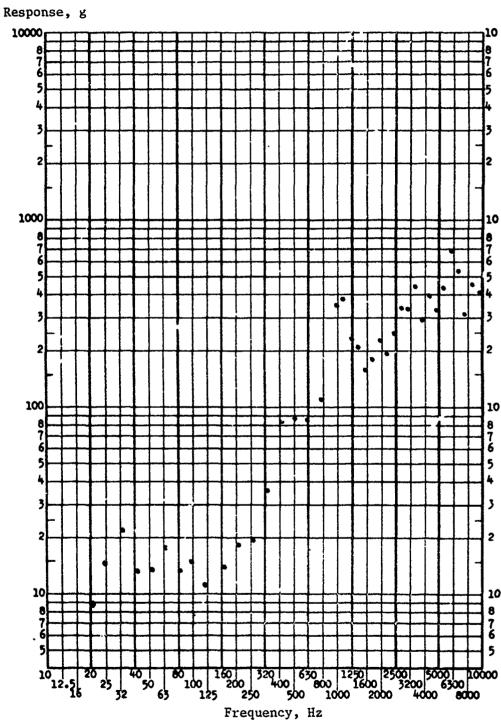


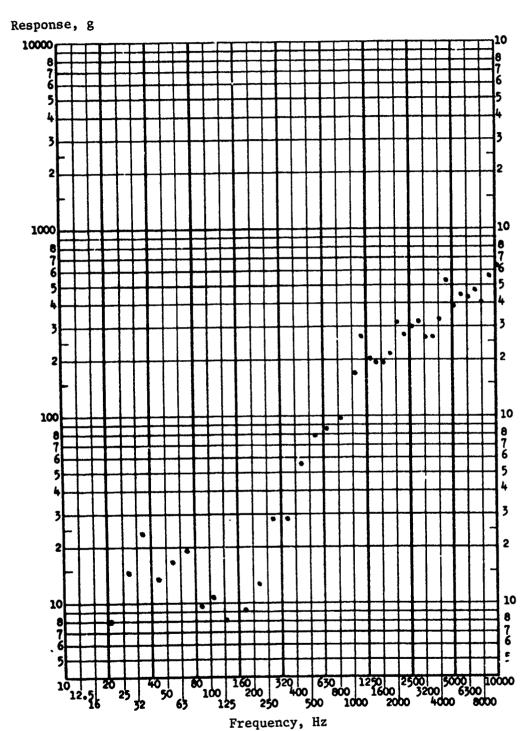
Figure 31 (cont)

station 77



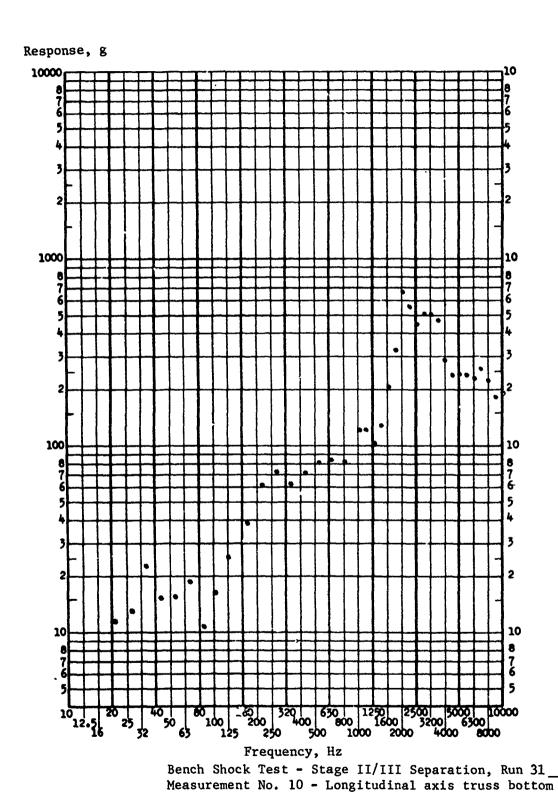
Bench Shock Test - Stage II/III Separation, Run 31 \_\_\_\_ Measurement No. 8 - Tangential axis longeron near station 77

Figure 31 (cont)



Bench Shock Test - Stage II/III Separation, Run 31\_\_\_ Measurement No. 9 - Radial axis longeron near station 77

Figure 31 (cont)

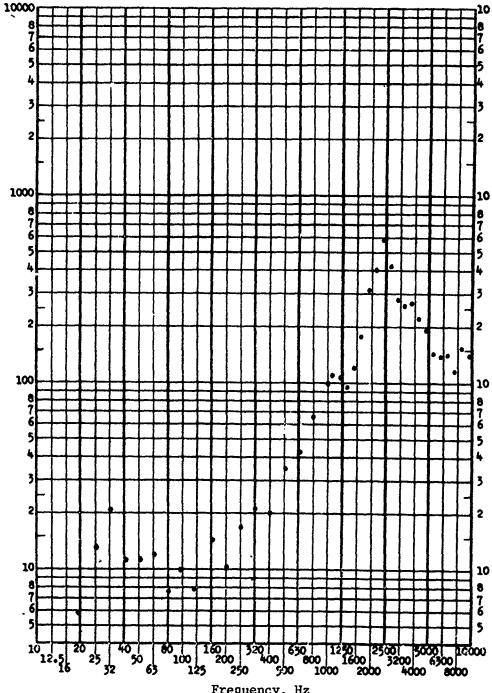


near station 114 attach point

Figure 31 (cont)

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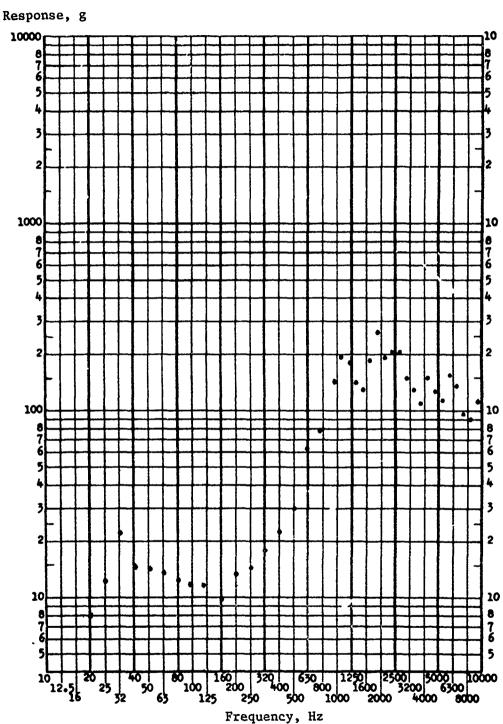




Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 31 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

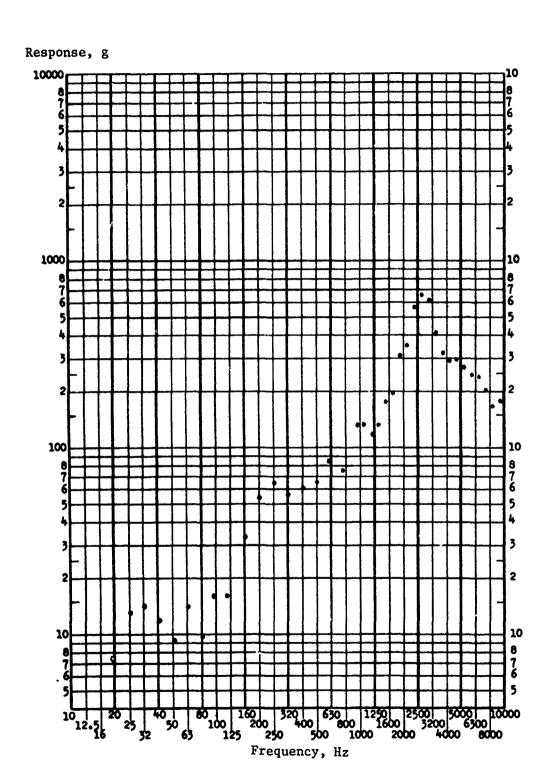
Figure 31 (cont)



Bench Shock Test - Stage II/III Separation, Run 31 \_\_\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

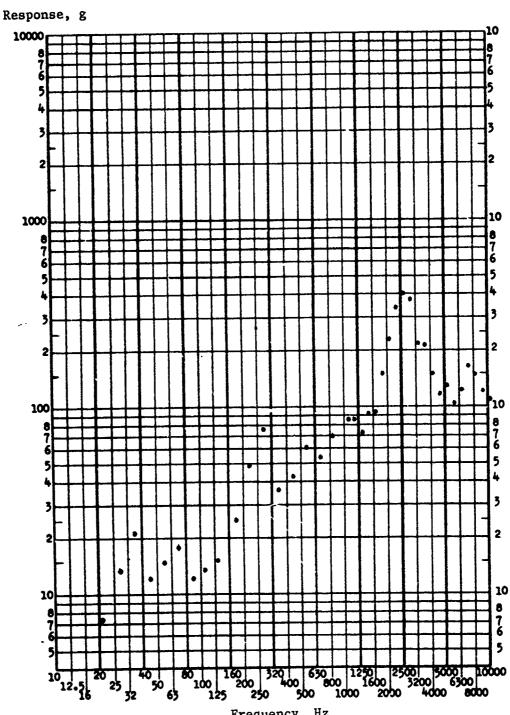
Figure 31 (cont)

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Bench Shock Test - Stage II/III Separation, Run 31\_ Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 31 (cont)

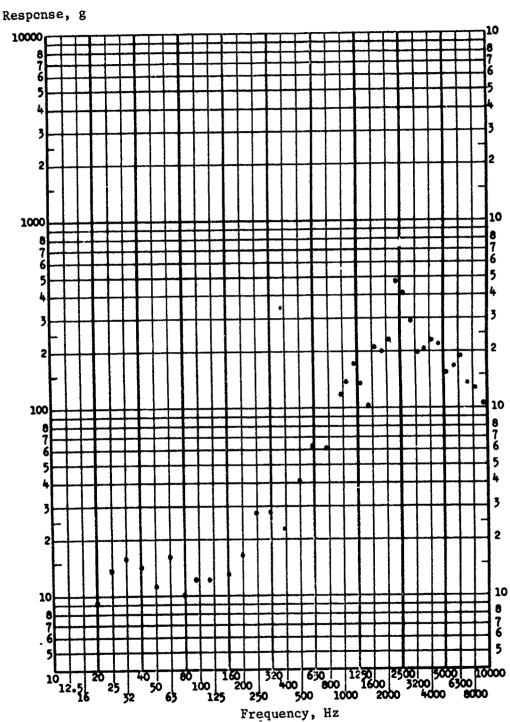


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 31 \_\_

Measurement No. 14 - Lateral axis truss top near
longeron attach point

Figure 31 (cont)



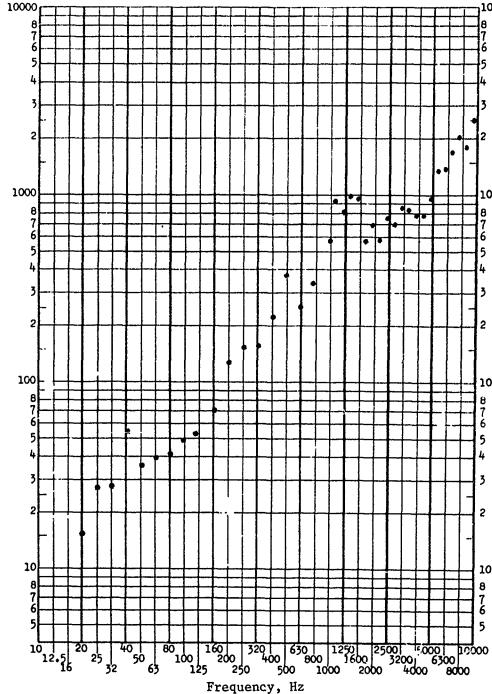
Bench Shock Test - Stage II/III Separation, Run 31\_ Measurement No. 15 - Lateral axis truss top near longeron attach point

Figure 31 (concl)

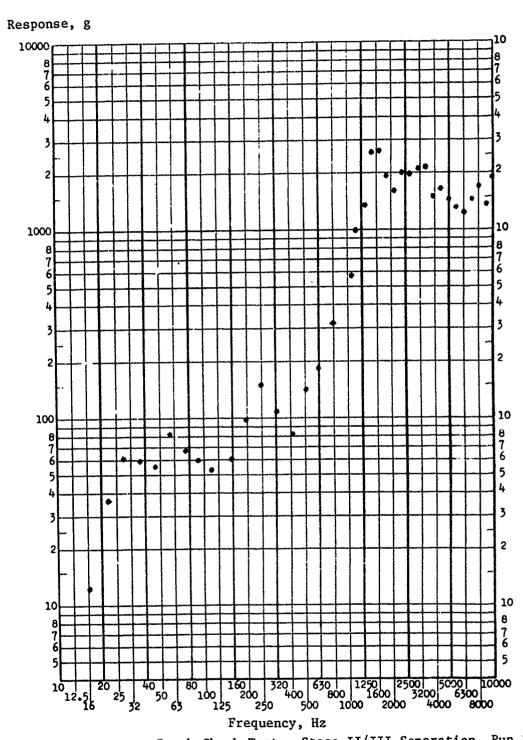
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Bench Shock Test - Stage II/III Separation, Run 32 Measurement No. 1 - Longitudinal axis longeron near station 133 Figure 32 Run 32 Shock Response Spectrum

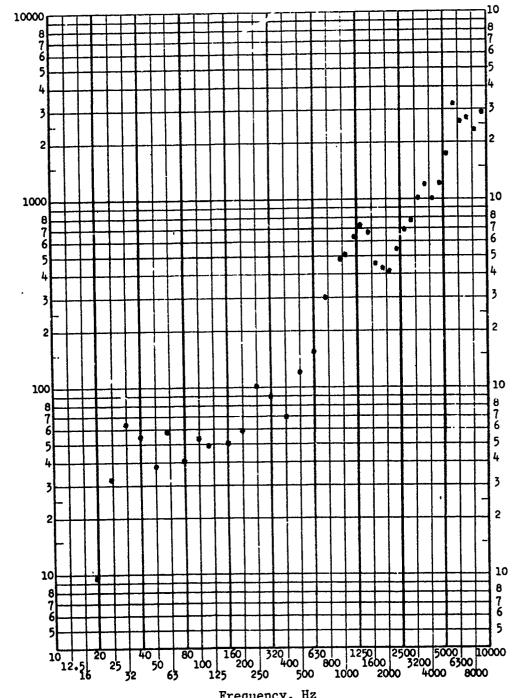


Bench Shock Test - Stage II/III Separation, Run 32 Measurement No. 2 - Tangential axis longeron near station 133

Figure 32 (cont)

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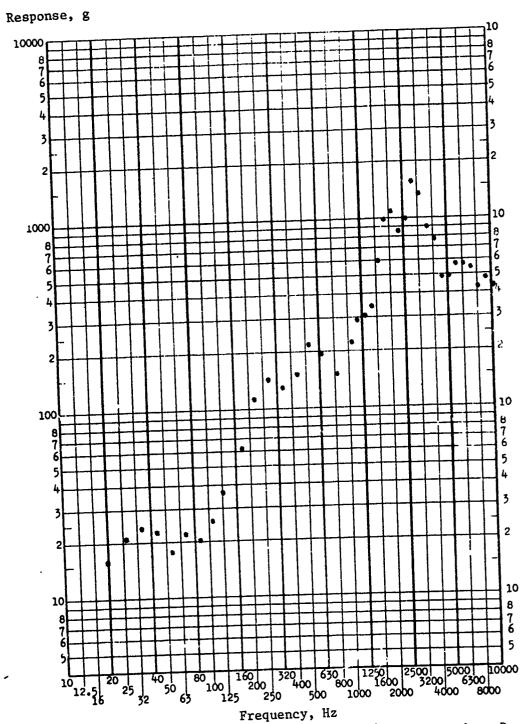




Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 32 Measurement No. 3 - Radial axis longeron near station 133

Figure 32 (cont)



Bench Shock Test - Stage II/III Separation, Run 32 Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 32 (cont)

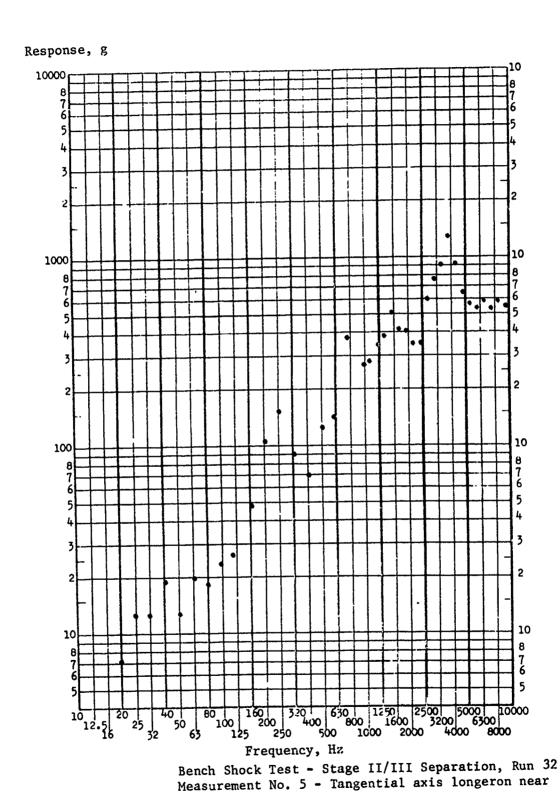
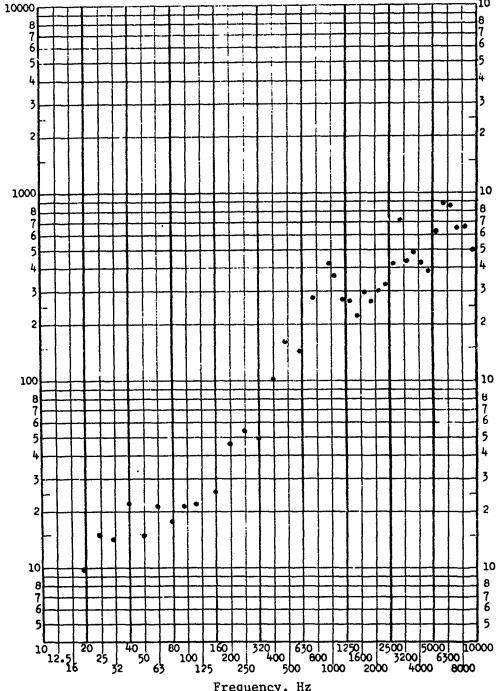


Figure 32 (cont)

station 117





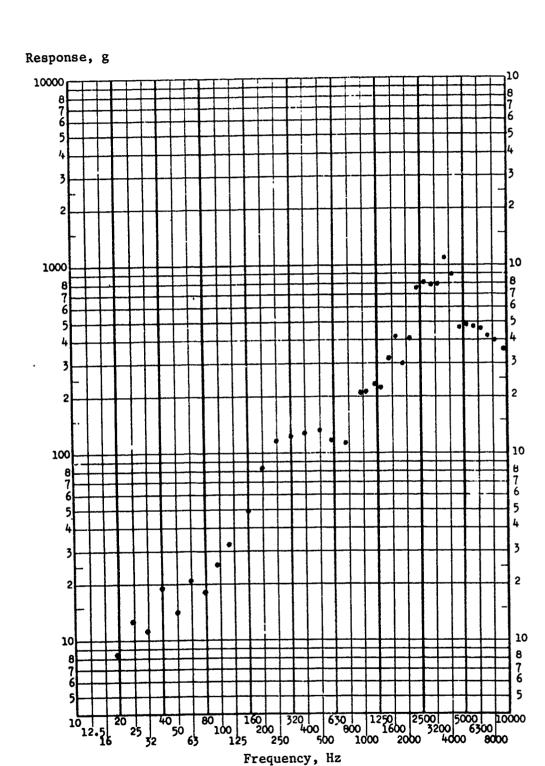
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 32

Measurement No. 6 - Radial axis longeron near

station 117

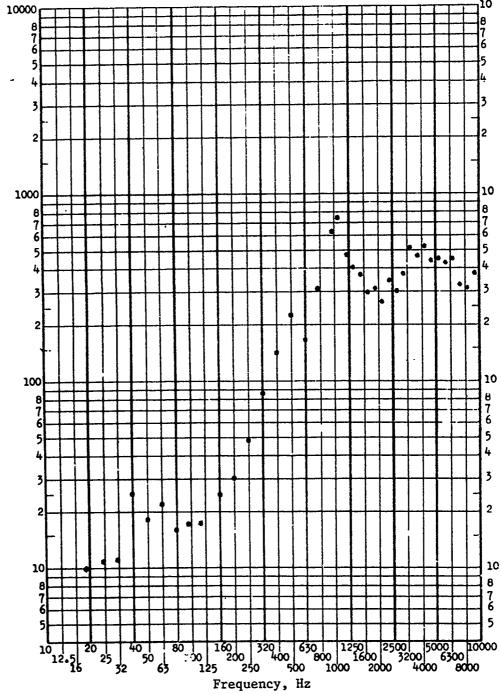
Figure 32 (cont)



Bench Shock Test - Stage II/III Separation, Run 32 Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 32 (cont)

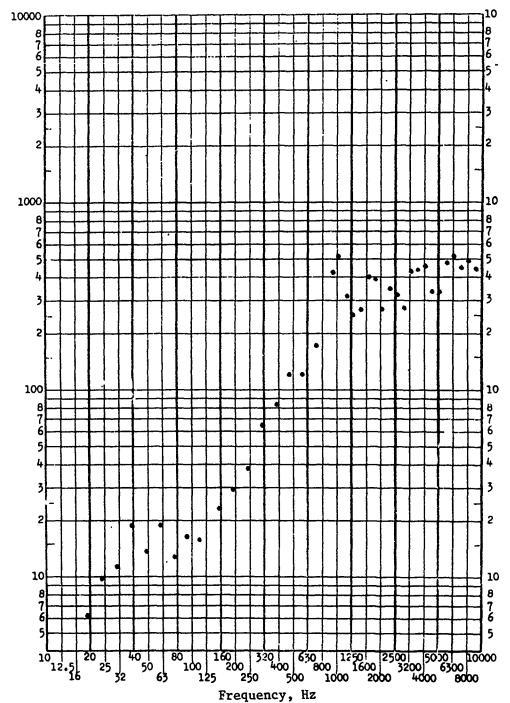




Bench Shock Test - Stage II/III Separation, Run 32 Measurement No. 8 - Tangential axis longeron near station 77

Figure 32 (cont)

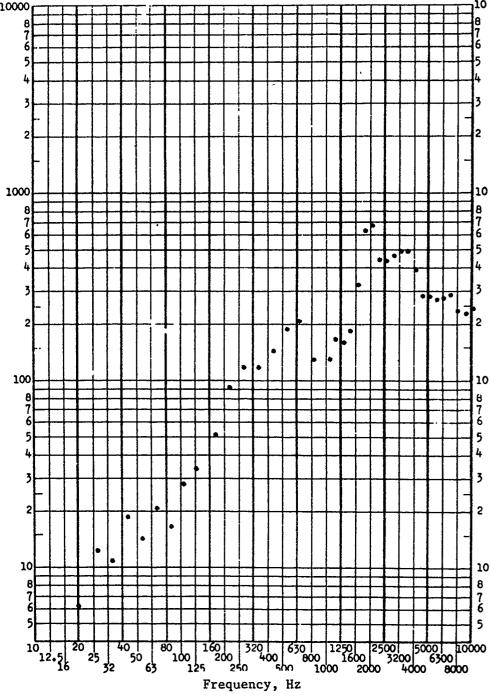




Bench Shock Test - Stage II/III Separation, Run 32 Measurement No. 9 - Radial axis longeron near station 77

Figure 32 (cont)

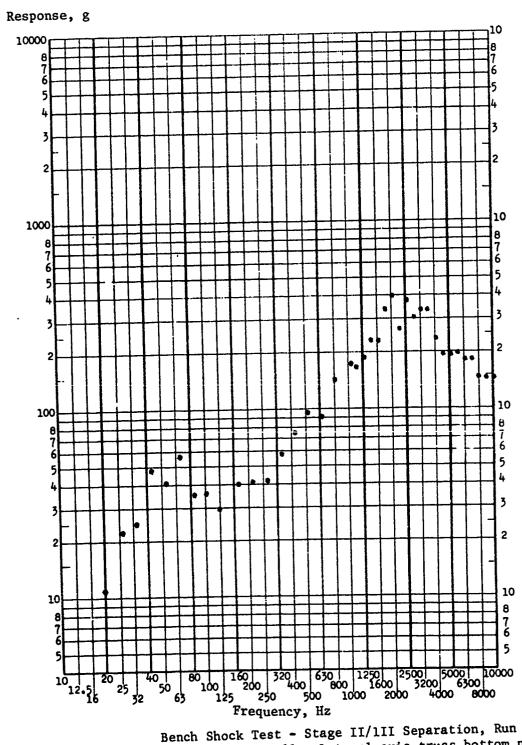




Bench Shock Test - Stage II/III Separation, Run 32 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 32 (cont)

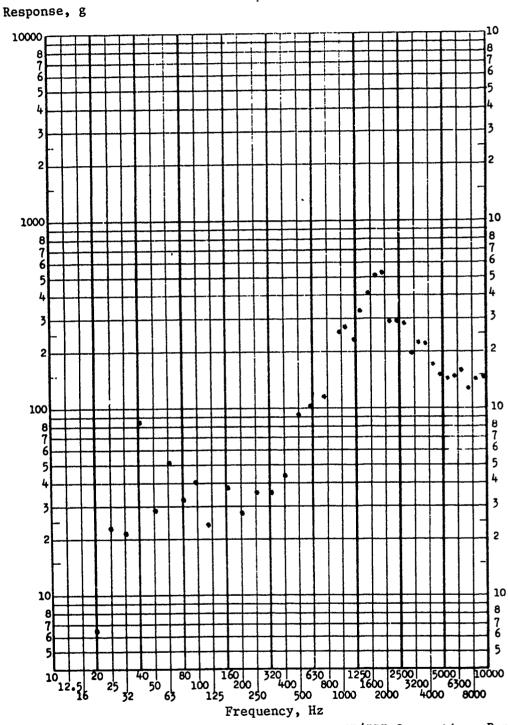
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Bench Shock Test - Stage II/III Separation, Run 32 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

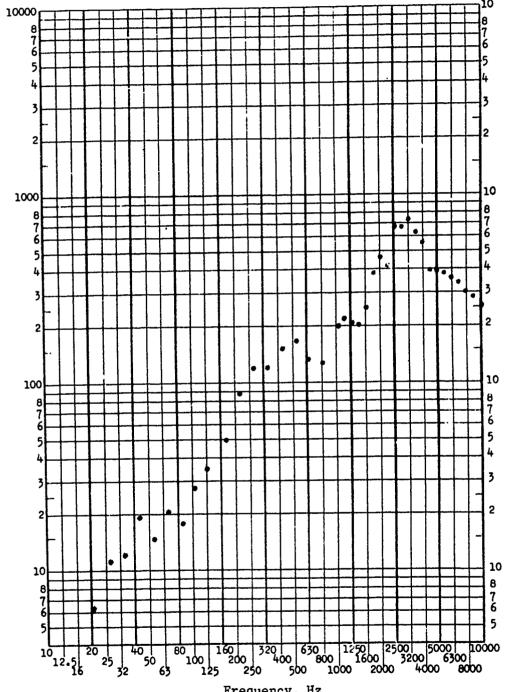
Figure 32 (cont)



Bench Shock Test - Stage II/III Separation, Run 32 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 32 (cont)





Frequency, Hz

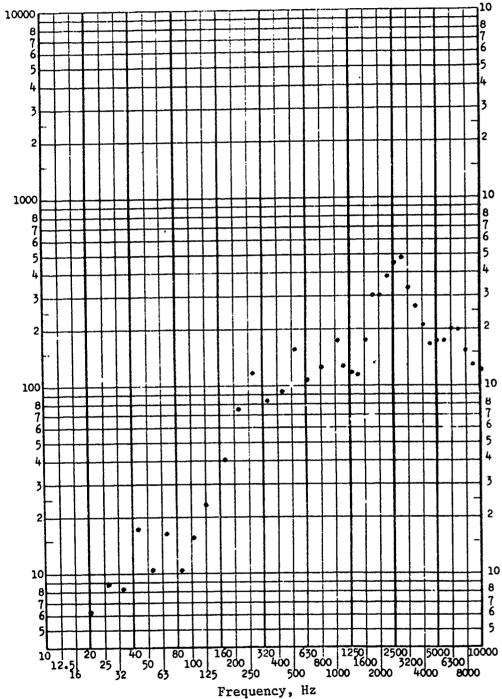
Bench Shock Test - Stage II/III Separation, Run 32

Measurement No. 13 - Longitudinal axis truss top

near longeron attach point

Figure 32 (cont)



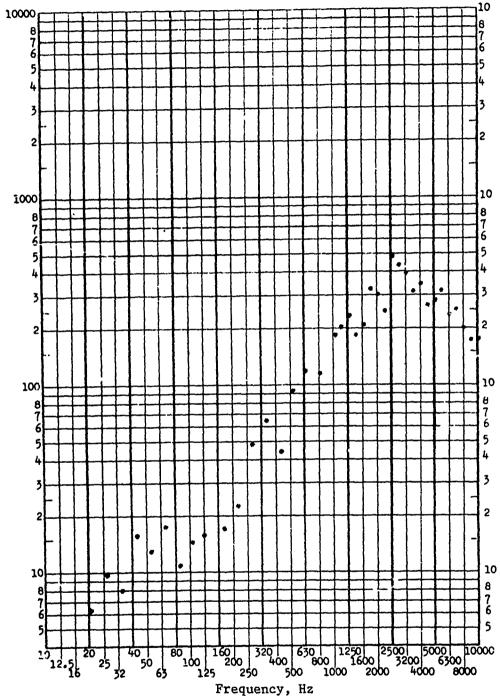


Bench Shock Test - Stage II/III Separation, Run 32 Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 32 (cont)

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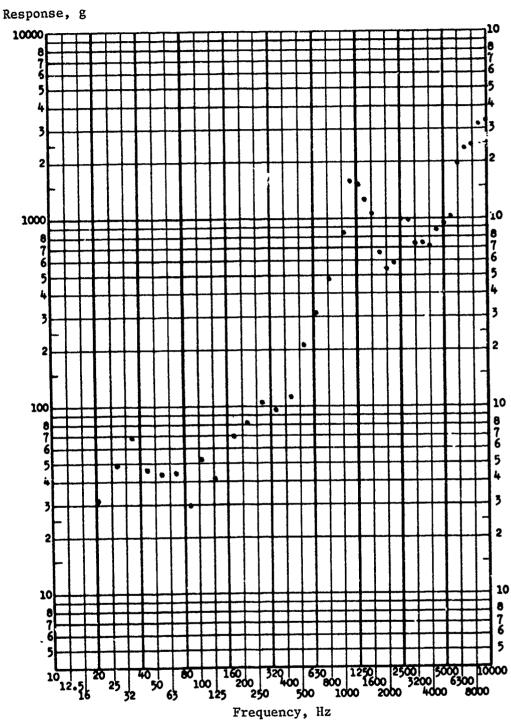




Bench Shock Test - Stage II/III Separation, Run 32 Measurement No. 15 - Lateral axis truss top near longeron attach point

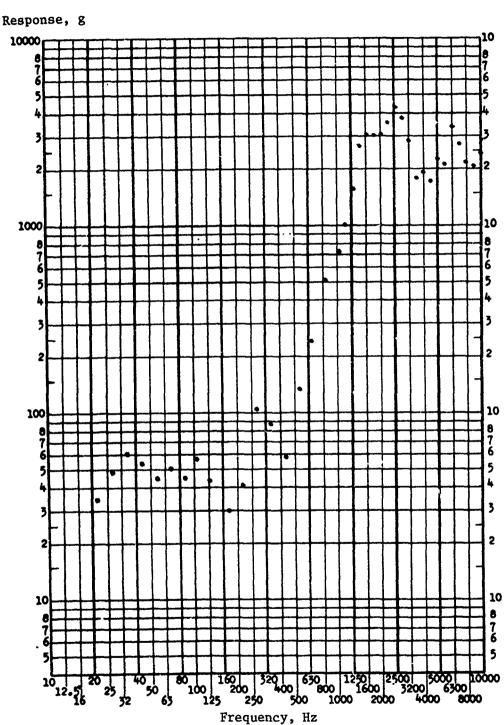
Figure 32 (concl)

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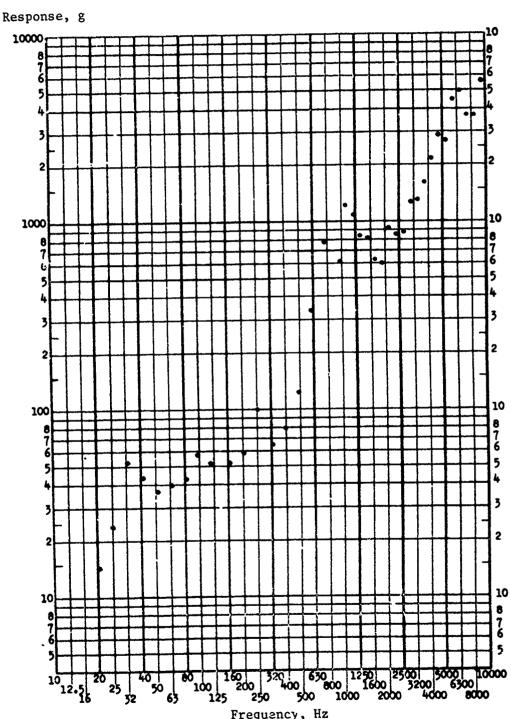
Bench Shock Test - Stage II/III Separation, Run 33 \_\_ Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 33 Run 33 Shock Response Spectrum



Bench Shock Test - Stage II/III Separation, Run 33 \_\_\_ Measurement No. 2 - Tangential axis longeron near station 133

Figure 33 (cont)



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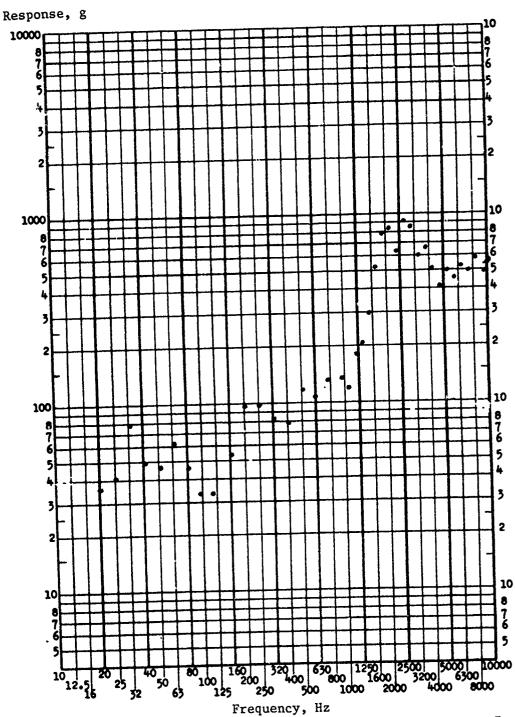
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 33 \_

Measurement No. 3 - Radial axis longeron near
station 133

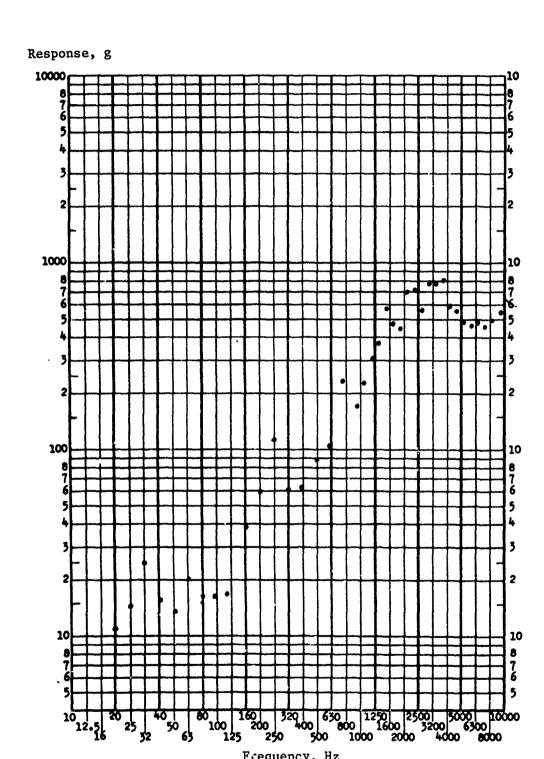
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Figure 33 (cont)



Bench Shock Test - Stage II/III Separation, Run 33 \_\_ Measurement No. 4 - Longitudinal axis longeron near station 117

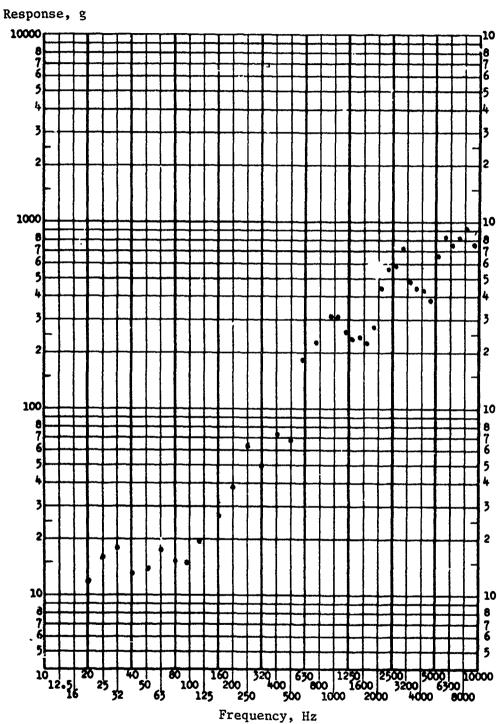
Figure 33 (cont)



Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 33 \_\_
Measurement No. 5 - Tangential axis longeron near station 117

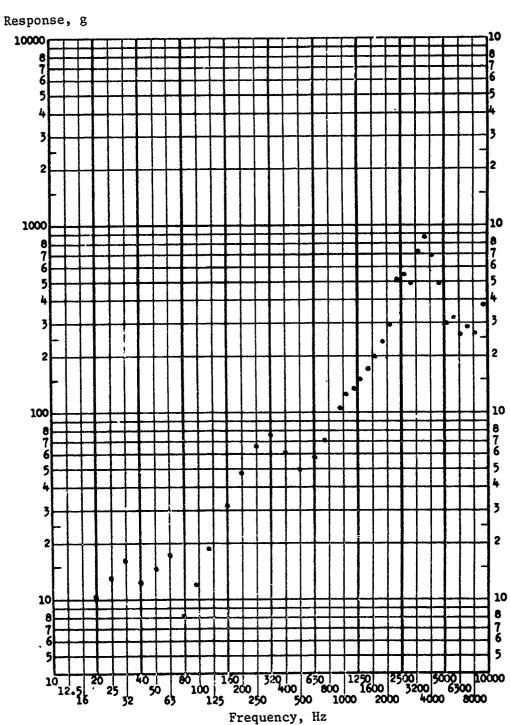
Figure 33 (cont)



Bench Shock Test - Stage II/III Separation, Run 33 \_\_\_ Measurement No. 6 - Radial axis longeron near station 117

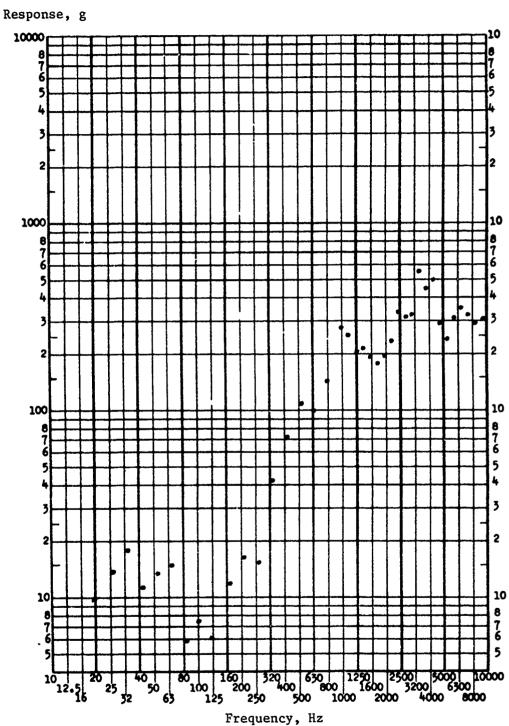
Figure 33 (cont)

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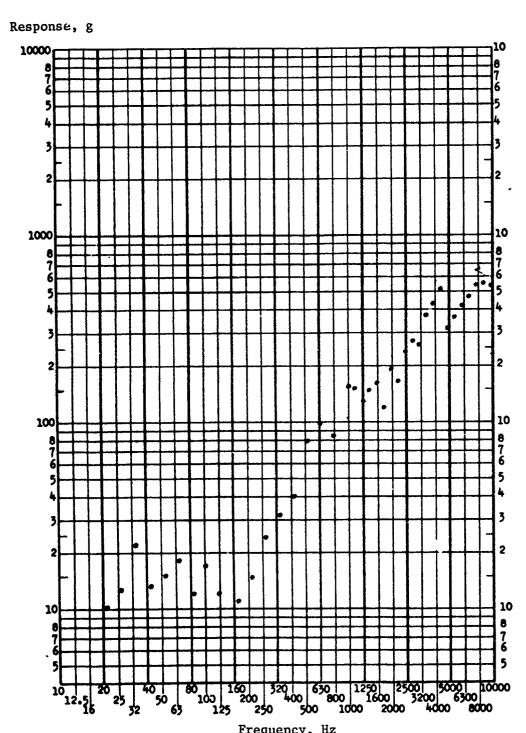
Bench Shock Test - Stage II/III Separation, Run 33 \_\_\_ Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 33 (cont)



Bench Shock Test - Stage II/III Separation, Run 33 \_\_\_\_ Measurement No. 8 - Tangential axis longeron near station 77

Figure 33 (cont)

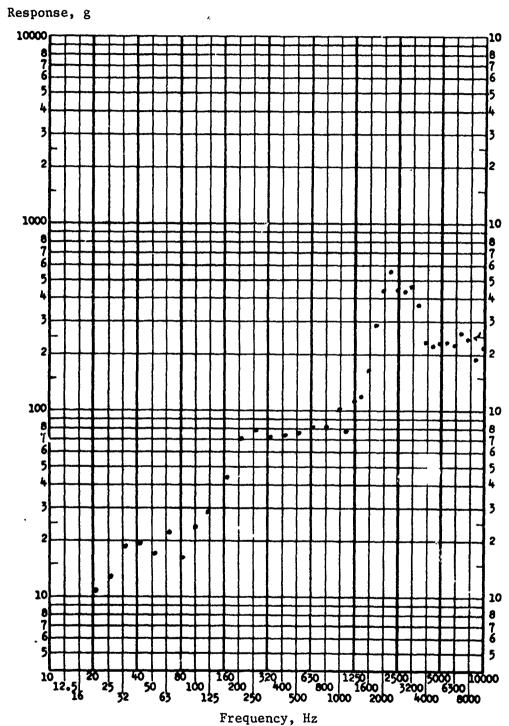


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 33 \_\_

Measurement No. 9 - Radial axis longeron near
station 77

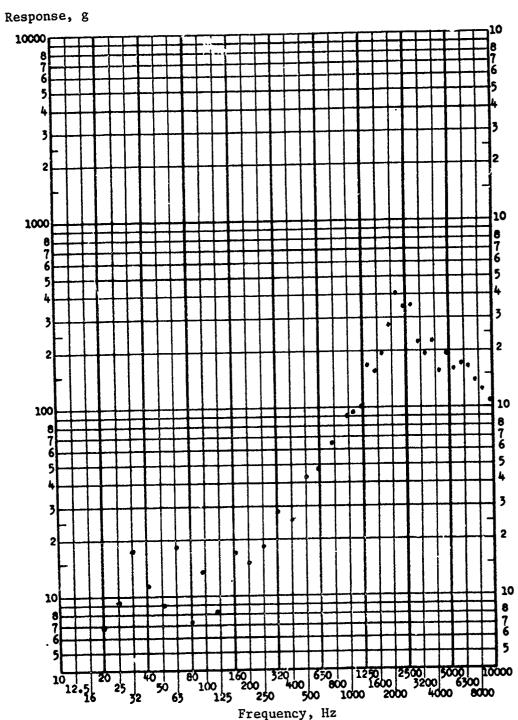
Figure 33 (cont)



Bench Shock Test - Stage II/III Separation, Run 33 \_\_\_\_\_ Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

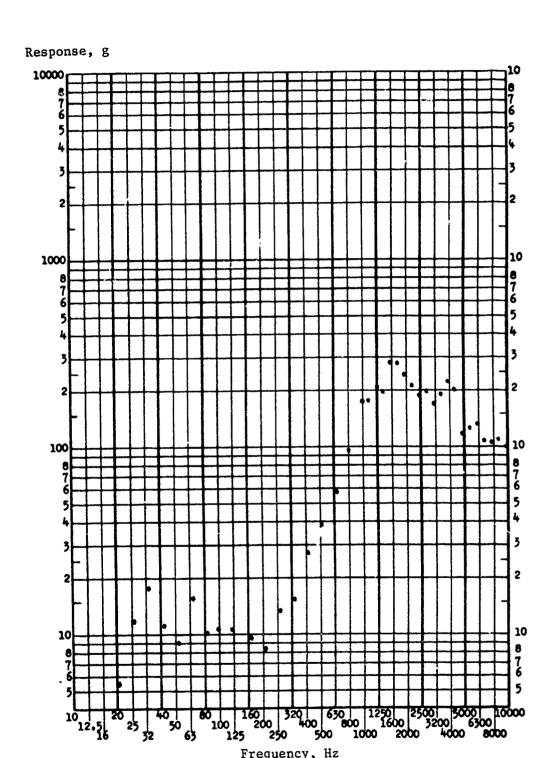
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Figure 33 (cont)



Bench Shock Test - Stage II/III Separation, Run 33 \_\_ Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 33 (cont)



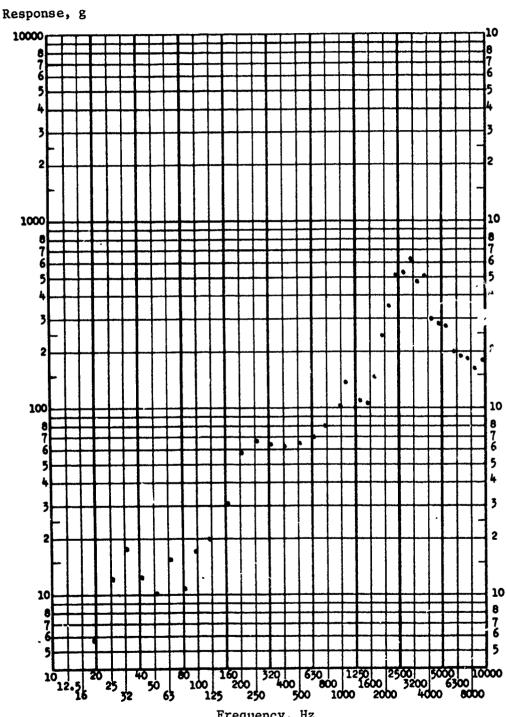
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 33 \_\_

Measurement No. 12 - Vertical axis truss bottom
near station 114 attach point

Figure 33 (cont)

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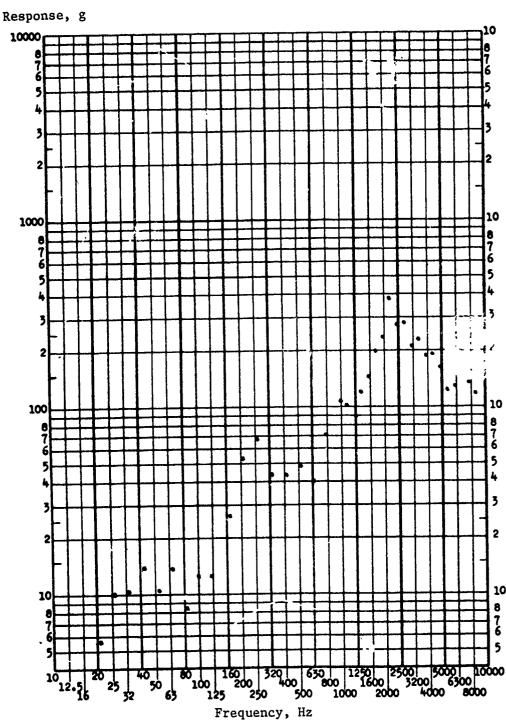


Frequency, Hz

Bench Shock Test - Stage II/JII Separation, Run 33 \_

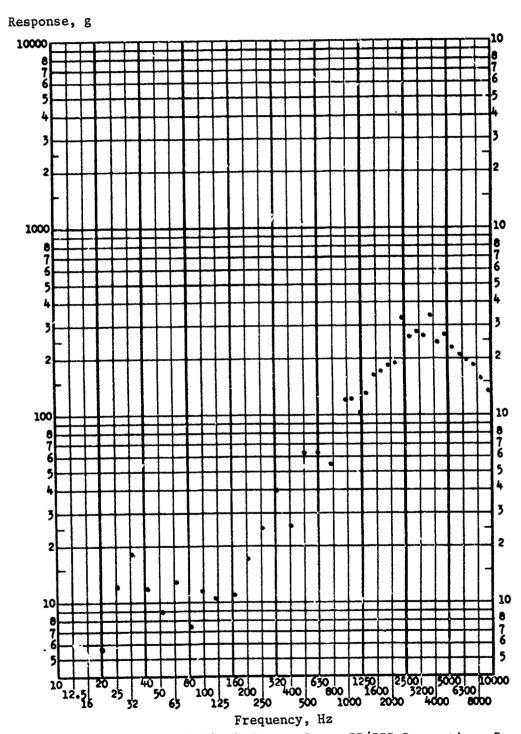
Measurement No. 13 - Longitudinal axis truss top
near longeron attach point

Figure 33 (cont)



Bench Shock Test - Stage II/III Separation, Run 33 \_\_ Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 33 (cont)

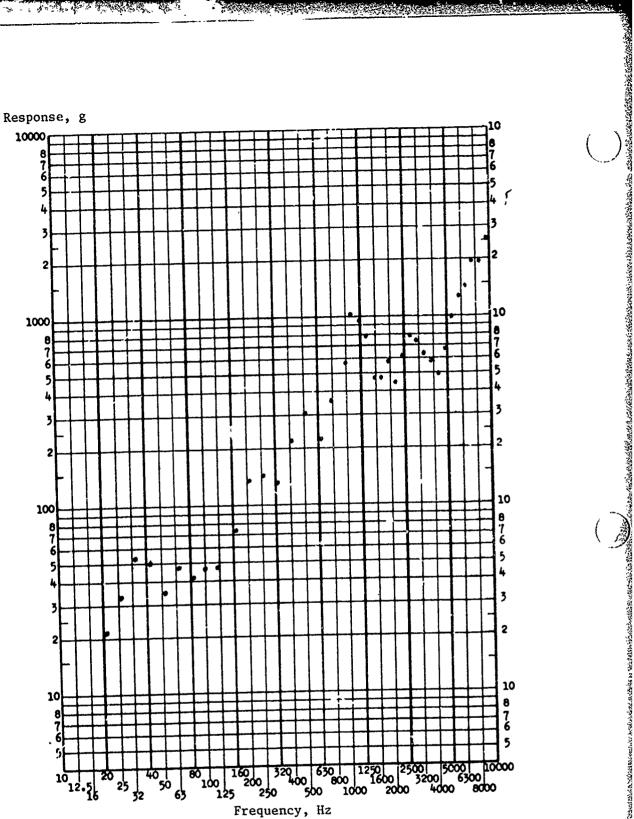


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Bench Shock Test - Stage II/III Separation, Run 33 \_\_ Measurement No. 15 - Lateral axis truss top near longeron attach point

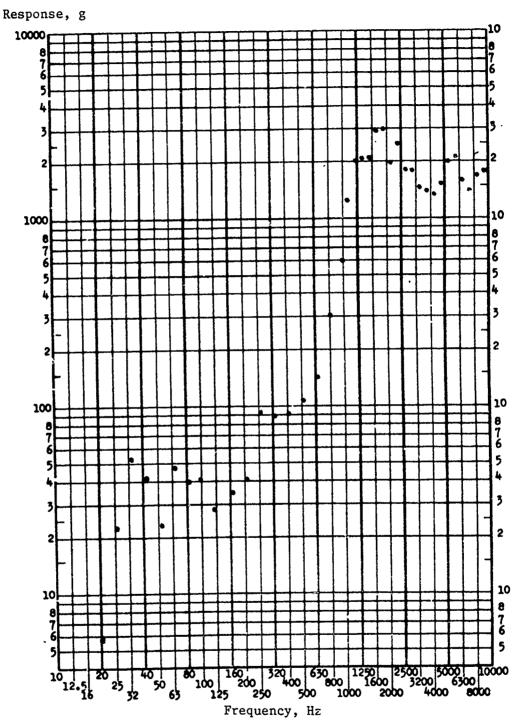
THE PROPERTY OF THE PROPERTY O

Figure 33 (concl)



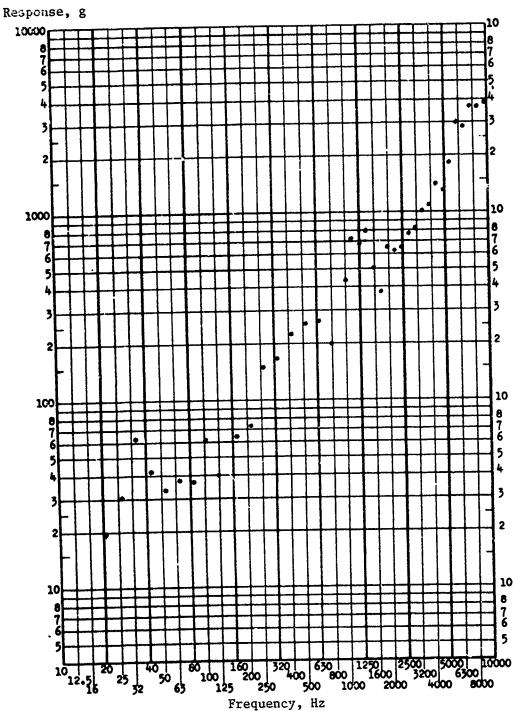
Bench Shock Test - Stage II/III Separation, Run 34 \_\_ Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 34 Run 34 Shock Response Spectrum



Bench Shock Test - Stage II/III Separation, Run 34 \_\_ Measurement No. 2 - Tangential axis longeron near station 133

Figure 34 (cont.

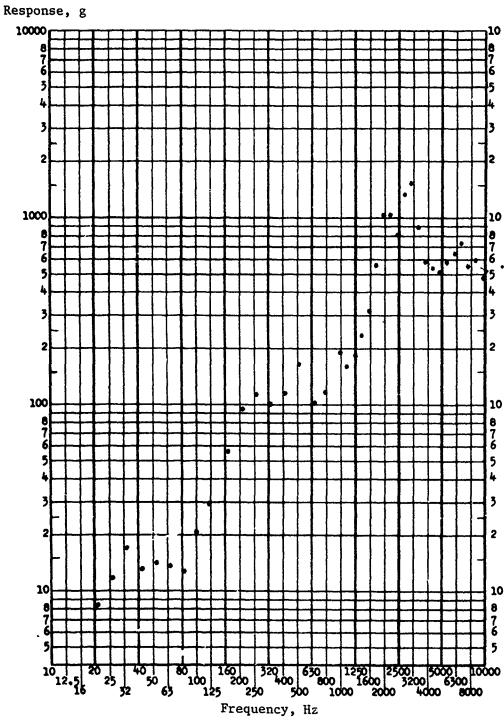


Bench Shock Test - Stage II/III Separation, Run 34 \_\_ Measurement No. 3 - Radial axis longeron near station 133

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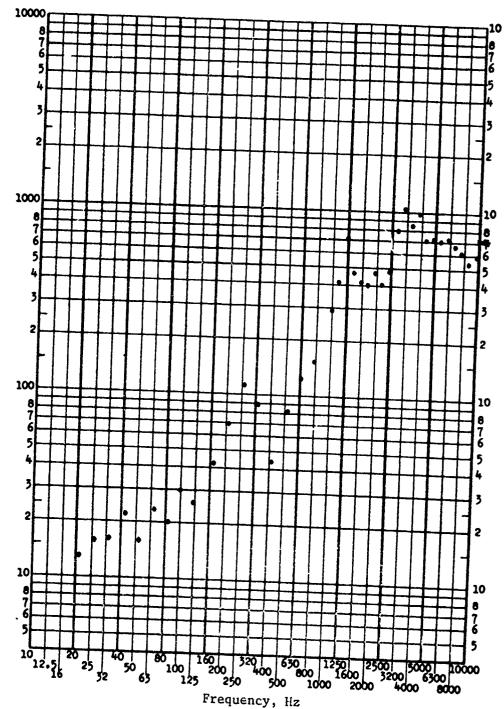
Figure 34 (cont)



Bench Shock Test - Stage II/III Separation, Run 34 \_\_ Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 34 (cont)

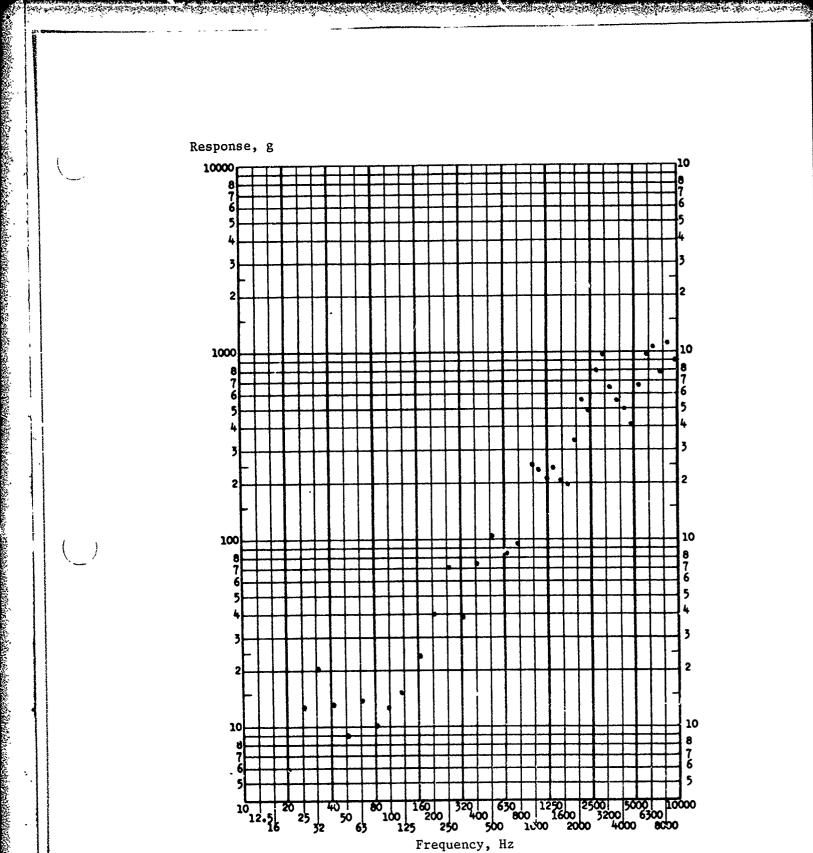




Survey or we were the second of the second o

Bench Shock Test - Stage II/III Separation, Run 34 \_ Measurement No. 5 - Tangential axis longeron near station 117

Figure 34 (cont)



Bench Shock Test - Stage II/III Separation, Run 34 \_\_ Measurement No. 6 - Radial axis longeron near station 117

Figure 34 (cont)

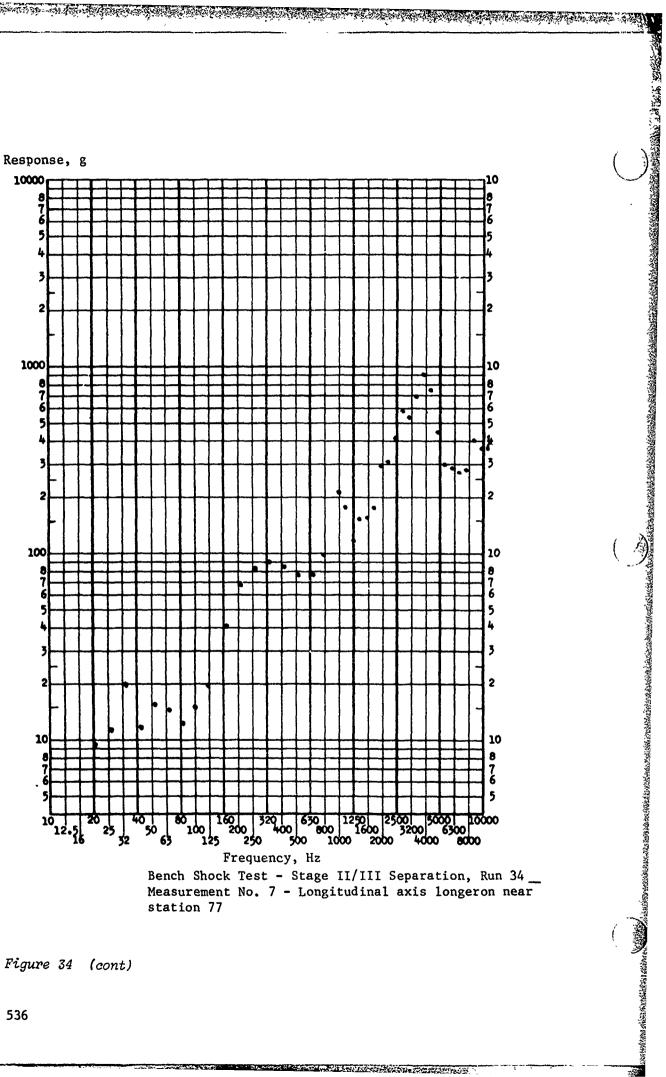
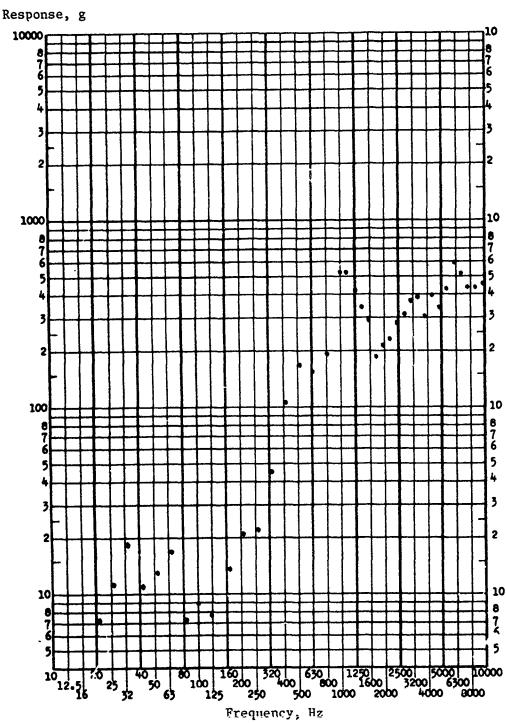
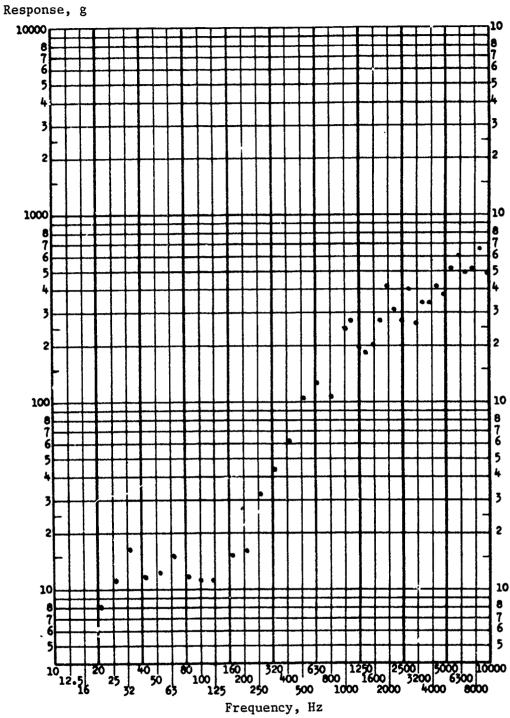


Figure 34 (cont)



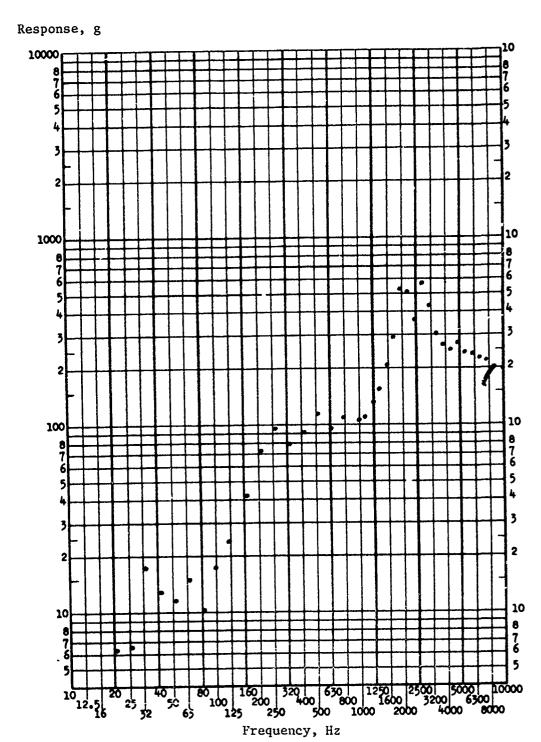
Bench Shock Test - Stage II/III Separation, Run 34 \_\_ Measurement No. 8 - Tangential axis longeron near station 77

Figure 34 (cont)



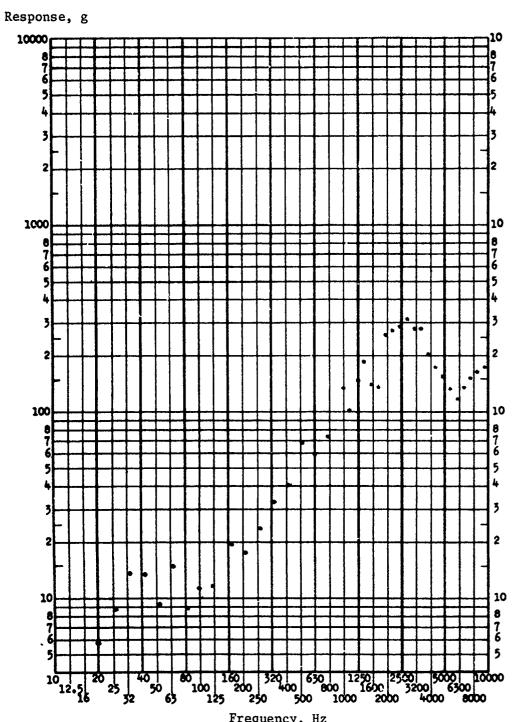
Bench Shock Test - Stage II/III Separation, Run 34 \_\_ Measurement No. 9 - Radial axis longeron near station 77

Figure 34 (cont)



Bench Shock Test - Stage II/III Separation, Run 34 \_\_\_\_ Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 34 (cont)



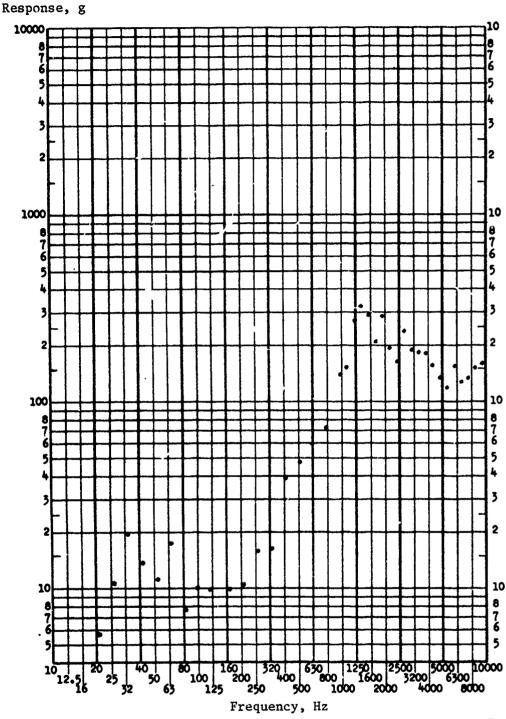
A CONTRACTOR OF THE STATE OF TH

Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 34 \_

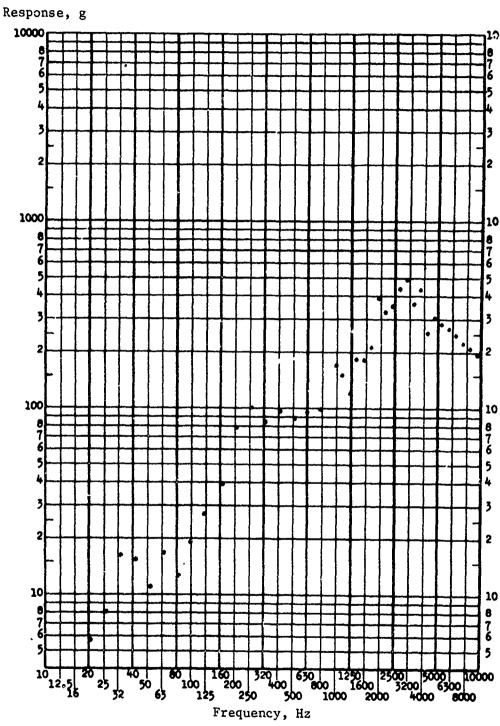
Measurement No. 11 - Lateral axis truss bottom near
station 114 attach point

Figure 34 (cont)



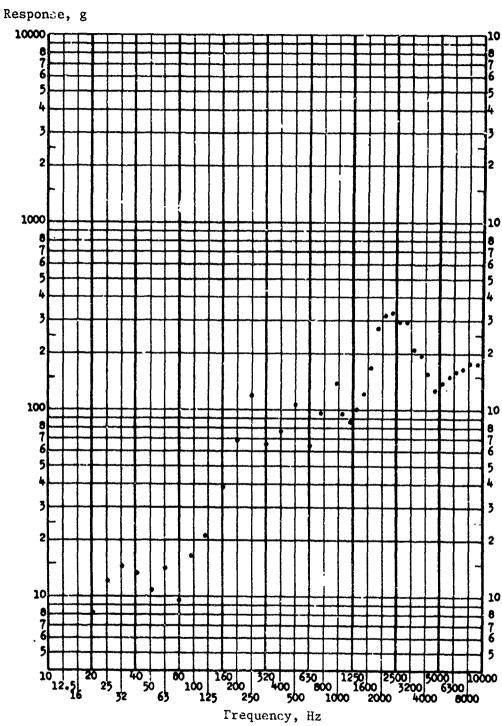
Bench Shock Test - Stage II/III Separation, Run 34 \_\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 34 (cont)



Bench Shock Test - Stage II/III Separation, Run 34 \_ Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 34 (cont)

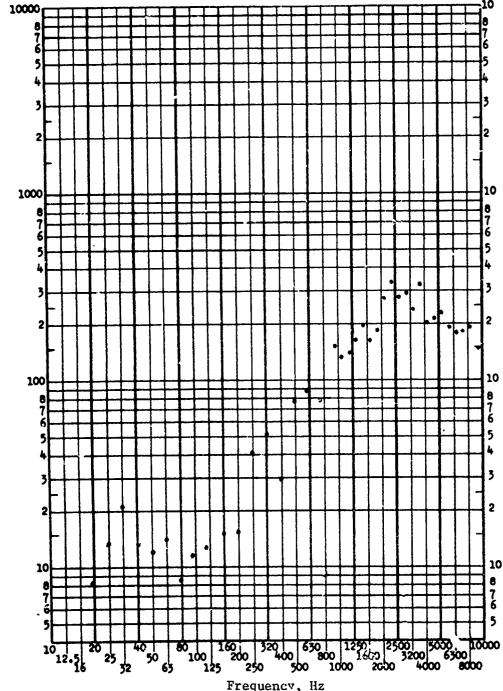


Bench Shock Test - Stage II/III Separation, Run 34 \_ Measurement No. 14 - Lateral axis truss top near longeron attach point

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Figure 34 (cont)

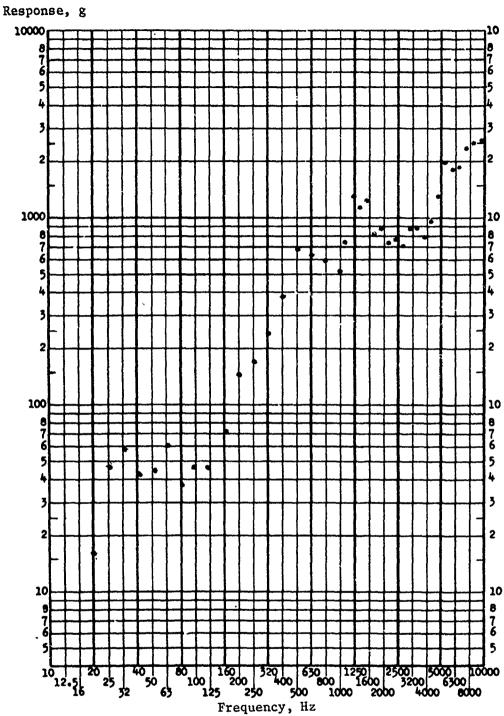




Frequency, Hz

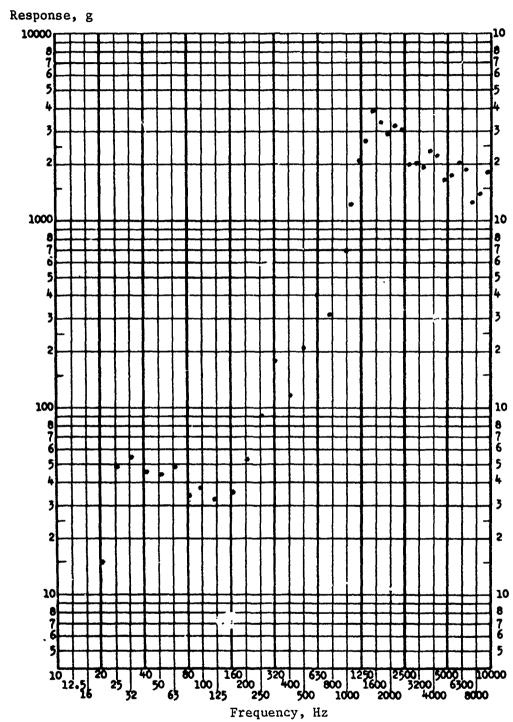
Bench Shock Test - Stage II/lII Separation, Run 34 \_ Measurement No. 15 - Lateral axis truss top near longeron attach point

Figure 34 (concl)



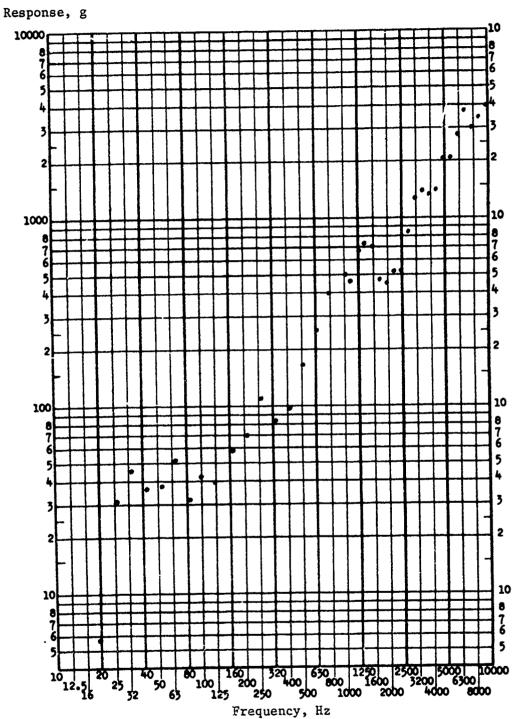
Bench Shock Test - Stage II/III Separation, Run 35 \_ Measurement No. 1 - Longitudinal axis longeron near station 133 Kerekara in belia kerika kerekaran beriakan kerikaran kerekaran kerekaran kerekaran kerikaran kerikaran kerika

Figure 35 Run 35 Shock Response Spectrum



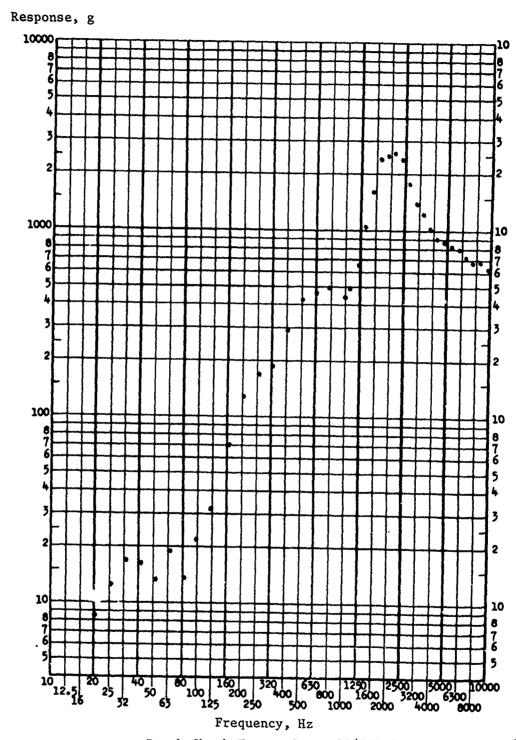
Bench Shock Test - Stage II/III Separation, Run 35 \_ Measurement No. 2 - Tangential axis longeron near station 133

Figure 35 (cont)



Bench Shock Test - Stage II/III Separation, Run 35 \_\_ Measurement No. 3 - Radial axis longeron near station 133

Figure 35 (cont)

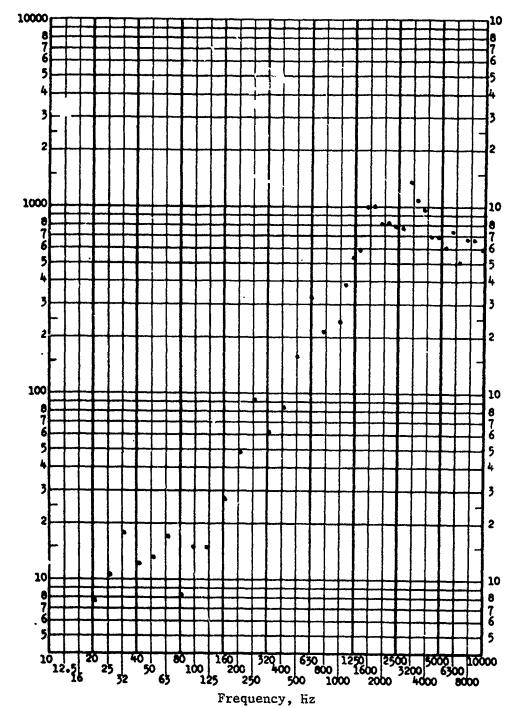


Bench Shock Test - Stage II/III Separation, Run 35 \_ Measurement No. 4 - Longitudinal axis longeron near station 117

The state of the s

Figure 35 (cont)

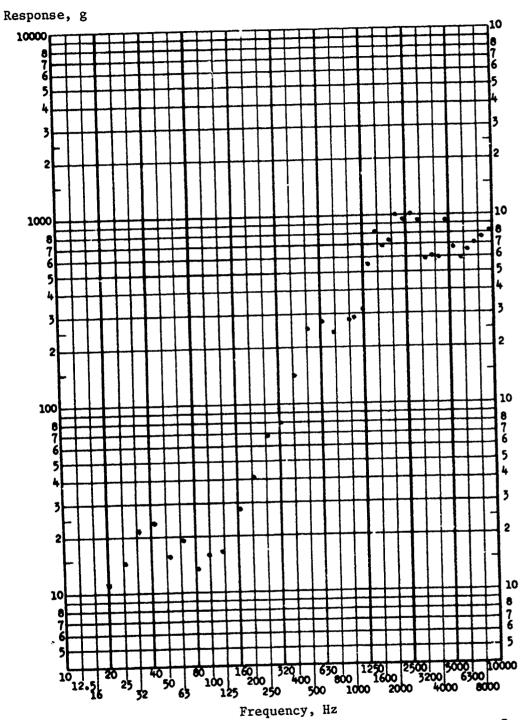




Bench Shock Test - Stage II/III Separation, Run 35 \_\_ Measurement No. 5 - Tangential axis longeron near station 117

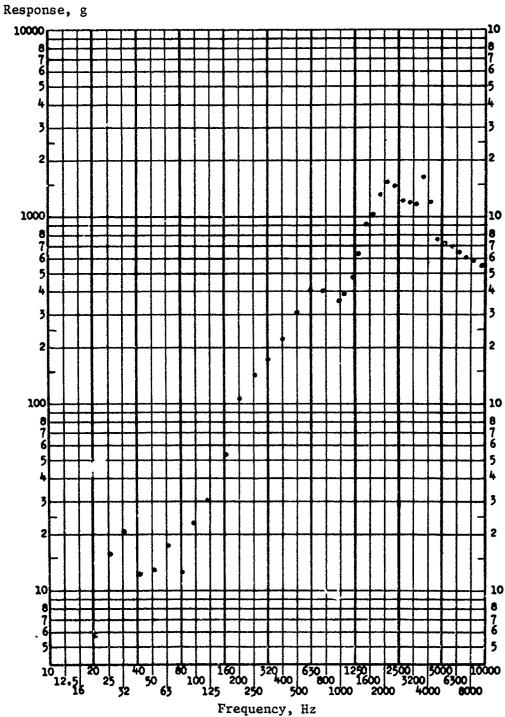
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Figure 35 (cont)



Bench Shock Test - Stage II/III Separation, Run 35 \_\_ Measurement No. 6 - Radial axis longeron near station 117

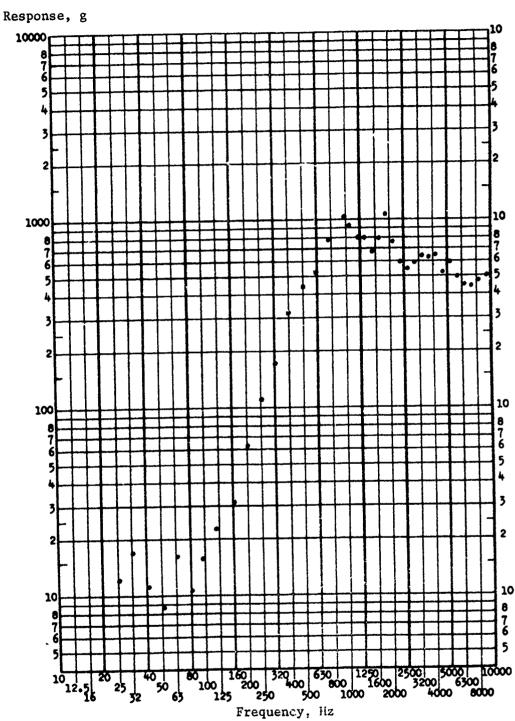
Figure 35 (cont)



Bench Shock Test - Stage II/III Separation, Run 35 \_\_ Measurement No. 7 - Longitudinal axis longeron near station 77

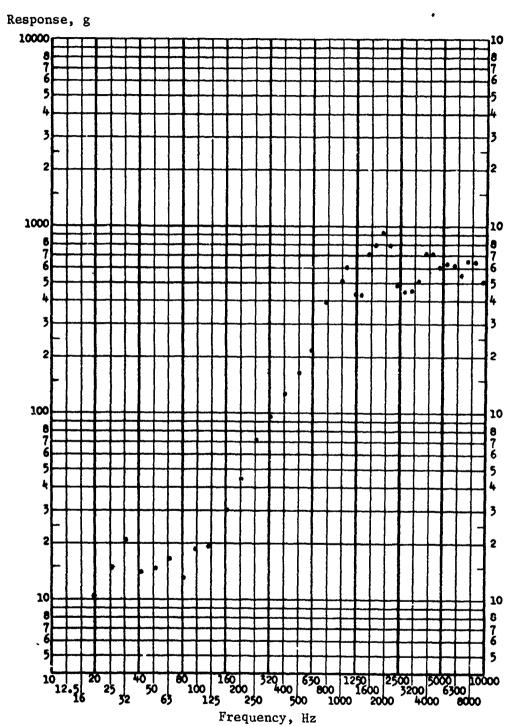
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Figure 35 (cont)



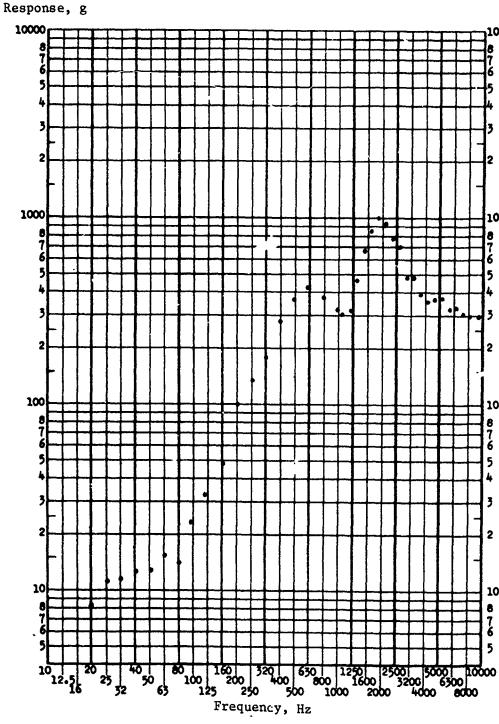
Bench Shock Test - Stage II/III Separation, Run 35 \_ Measurement No. 8 - Tangential axis longeron near station 77

Figure 35 (cont)



Bench Shock Test - Stage II/III Separation, Run 35 \_\_ Measurement No. 9 - Radial axis longeron near station 77

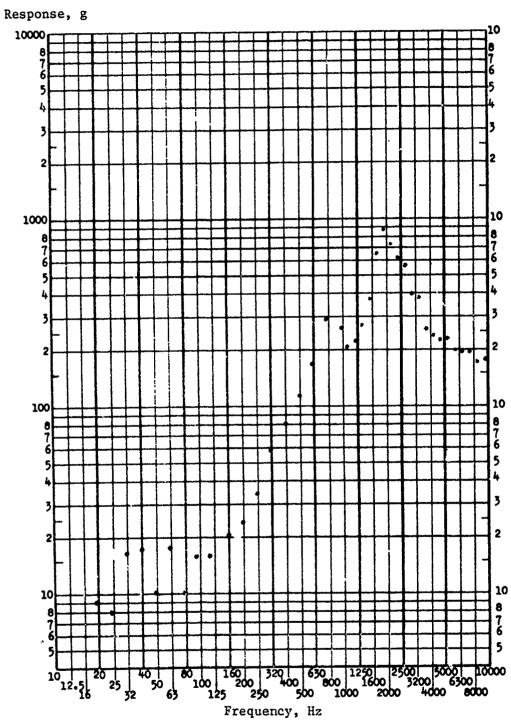
Figure 35 (cont)



Bench Shock Test - Stage II/III Separation, Run 35 \_\_ Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

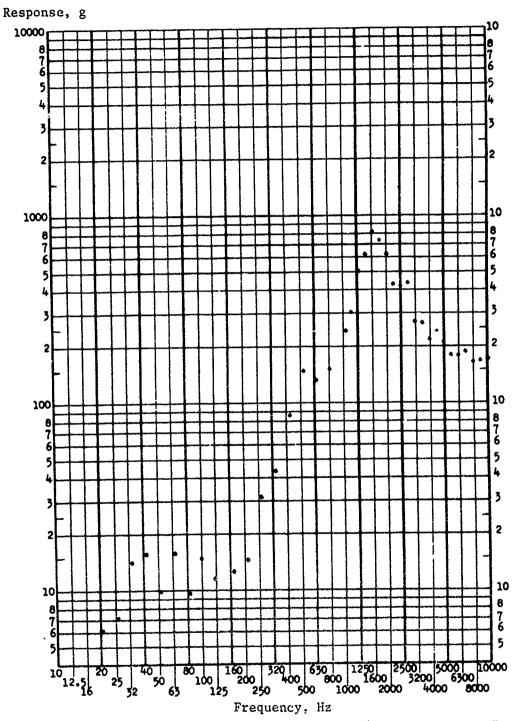
Figure 35 (cont)

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Bench Shock Test - Stage II/III Separation, Run 35 \_\_ Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

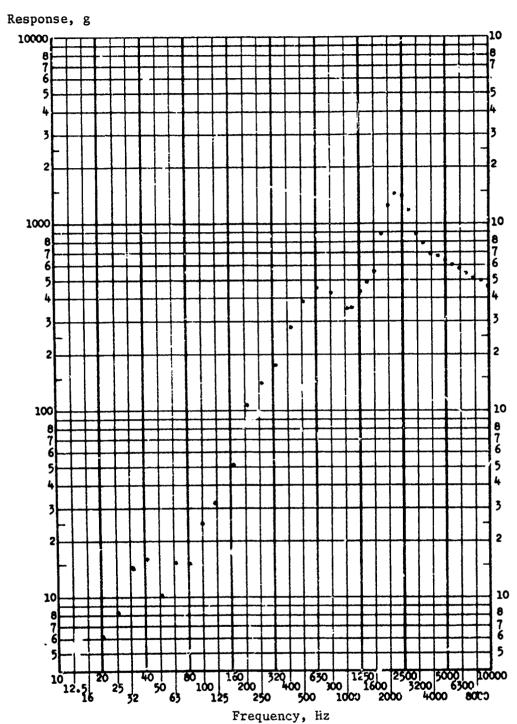
Figure 35 (cont)



Bench Shock Test - Stage II/III Separation, Run 35 \_\_\_\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 35 (cont)

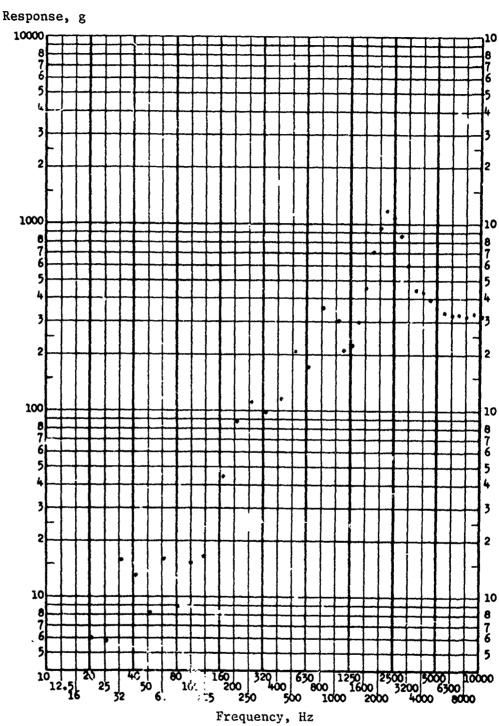
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Bench Shock Test - Stage II/III Separation, Run 35 \_\_ Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 35 (cont)

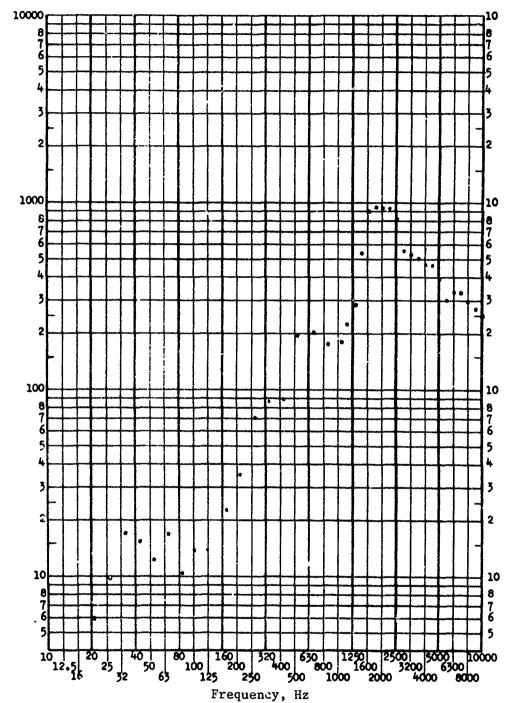
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Bench Shock Test - Stage II/III Separation, Run 35 \_\_ Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 35 (cont)

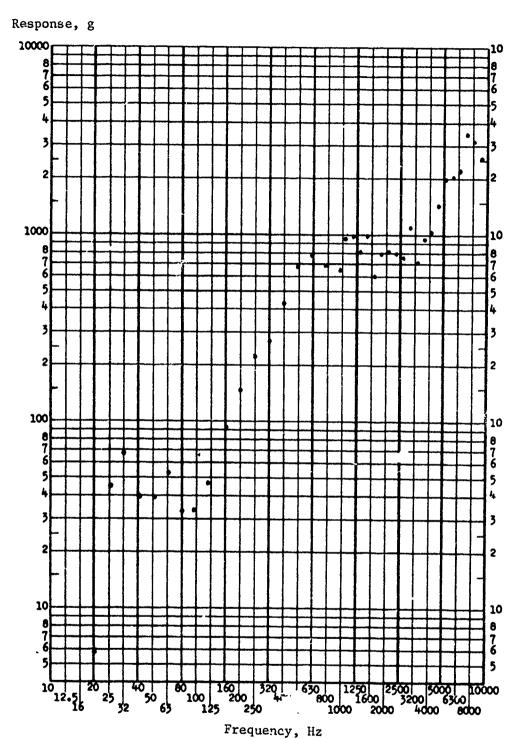




Bench Shock Test - Stage II/III Separation, Run 35
Measurement No. 15 - Lateral axis truss top near
longeron attach point

Figure 35 (concl)

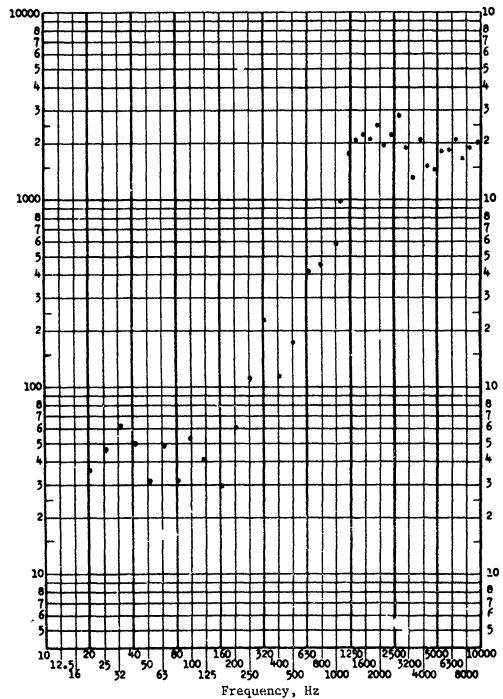
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Bench Shock Test - Stage II/III Separation, Run 36 Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 36 Run 36 Shock Response Spectrum





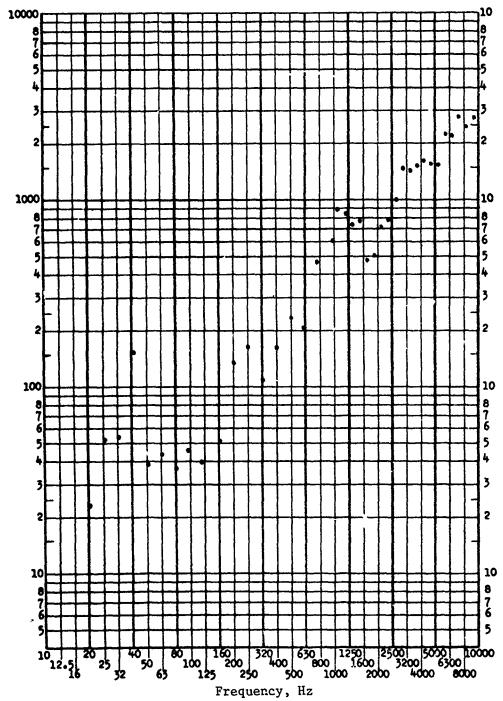
Bench Shock Test - Stage II/III Separation, Run 36 Measurement No. 2 - Tangential axis longeron near station 133

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Figure 36 (cont)

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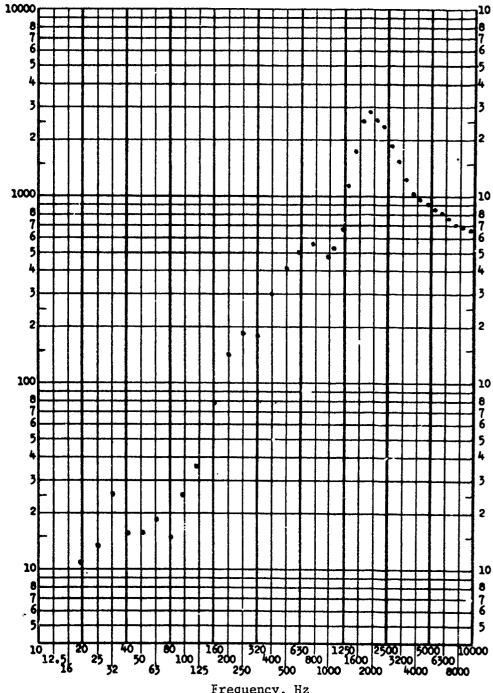




Bench Shock Test - Stage II/III Separation, Run 36 Measurement No. 3 - Radial axis longeron near station 133

Figure 36 (cont)



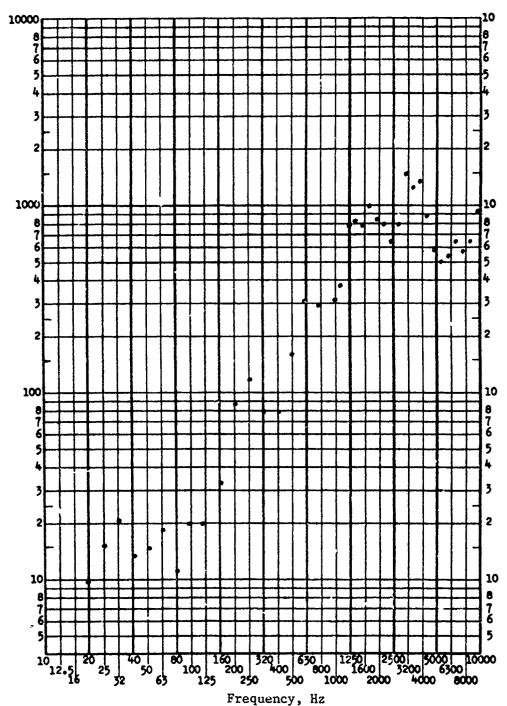


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 36 Measurement No. 4 - Longitudinal axis longeron near station 117

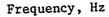
Figure 36 (cont)

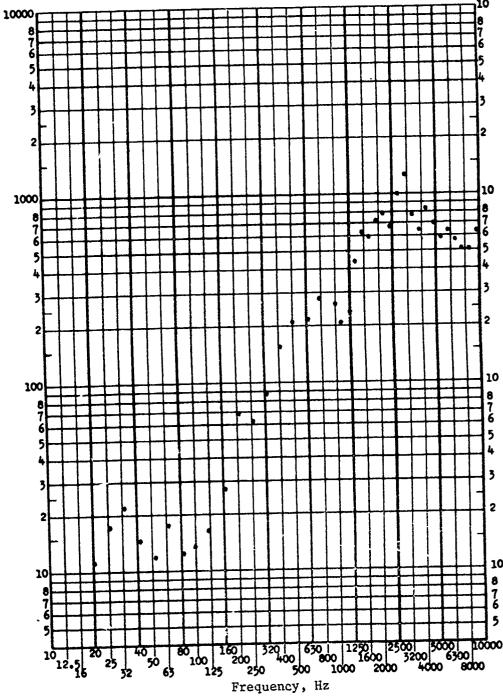




Bench Shock Test - Stage II/III Separation, Run 36 Measurement No. 5 - Tangential axis longeron near station 117

Figure 36 (cont)

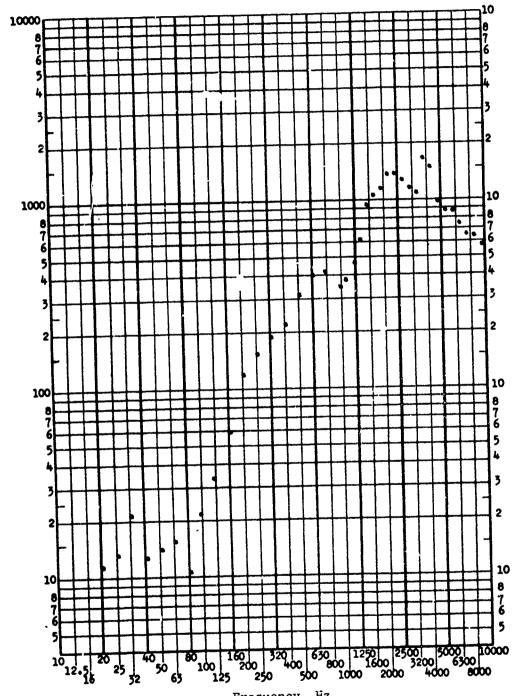




Bench Shock Test - Stage II/III Separation, Run 36 Measurement No. 6 - Radial axis longeron near station 117

Figure 36 (cont)





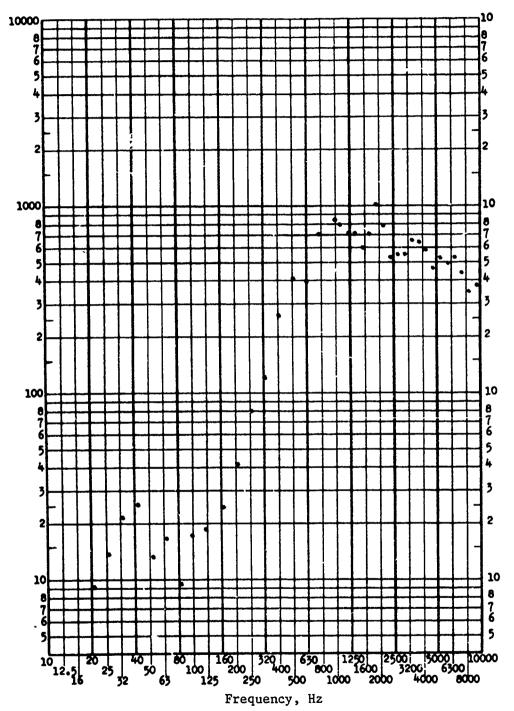
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 36

Measurement No. 7 - Longitudinal axis longeron near
station 77

Figure 36 (cont)

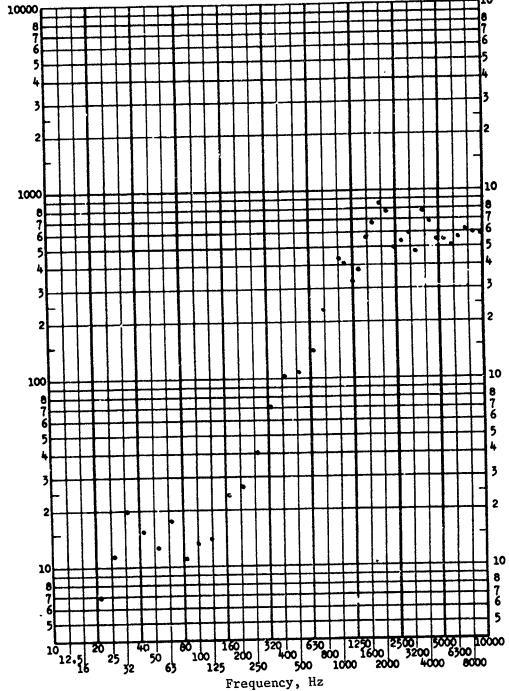




Bench Shock Test - Stage II/III Separation, Run 36 Measurement No. 8 - Tangential axis longeron near station 77

Figure 36 (cont)

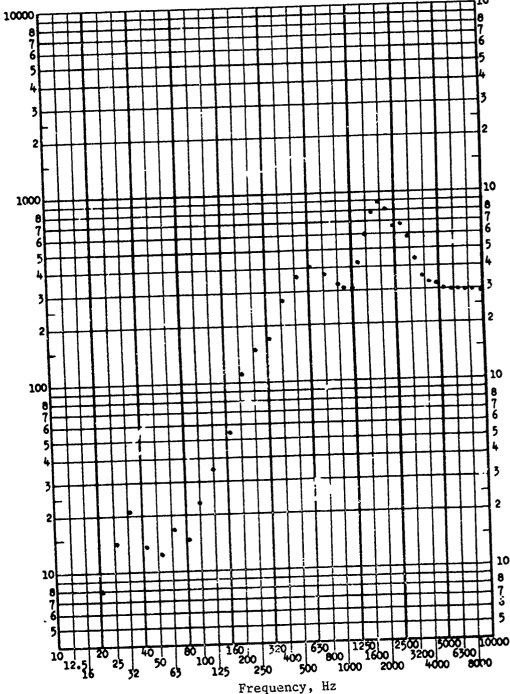




Bench Shock Test - Stage II/III Separation, Run 36 Measurement No. 9 - Radial axis longeron near station 77

Figure 36 (cont)



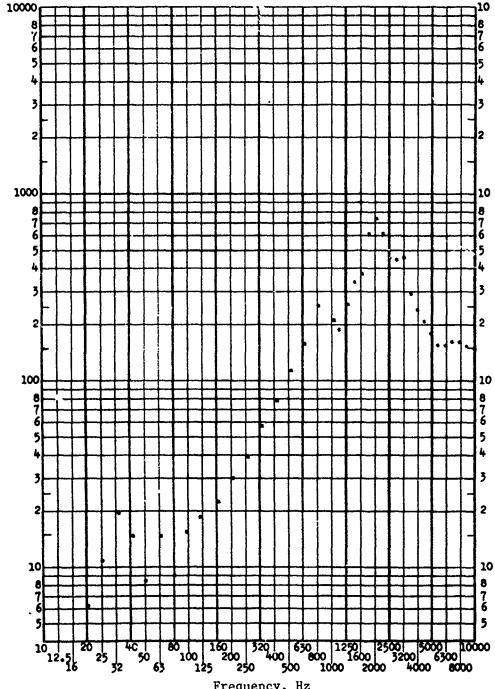


Bench Shock Test - Stage II/III Separation, Run 36 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 36 (cont)

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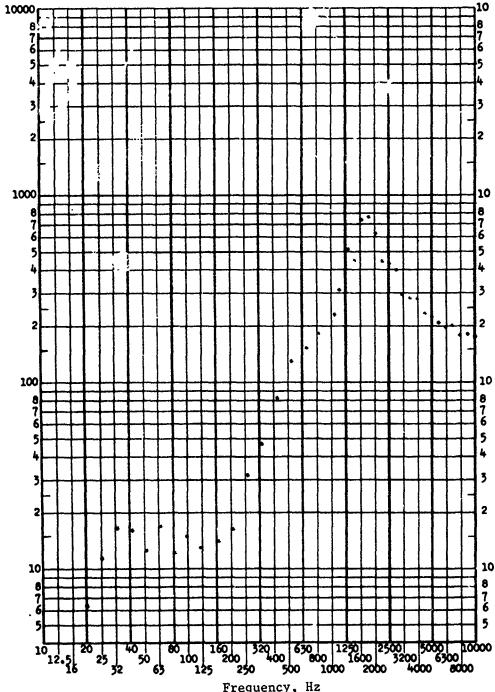


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 36 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 36 (cont)





Frequency, Hz

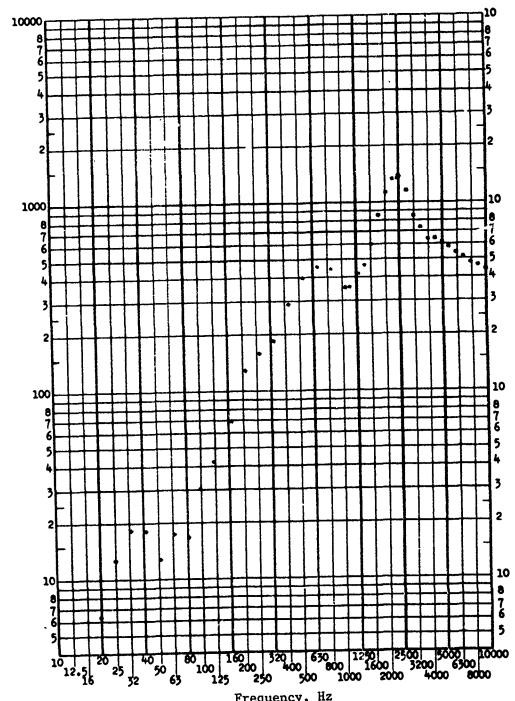
Bench Shock Test - Stage II/III Separation, Run 36 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 36 (cont)

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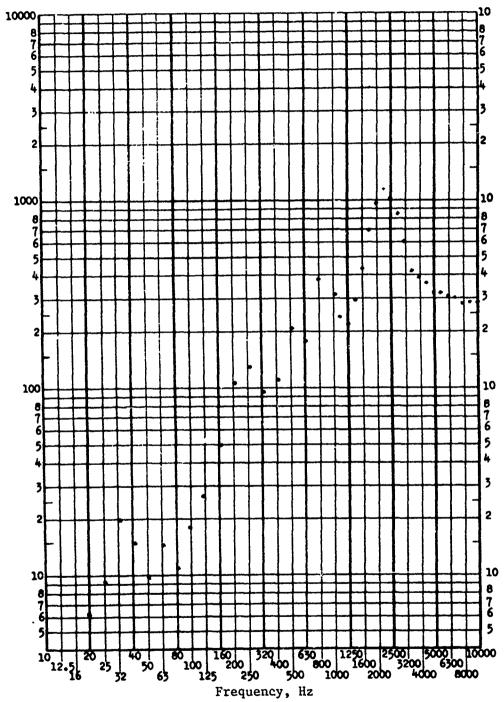


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 36 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 36 (cont)

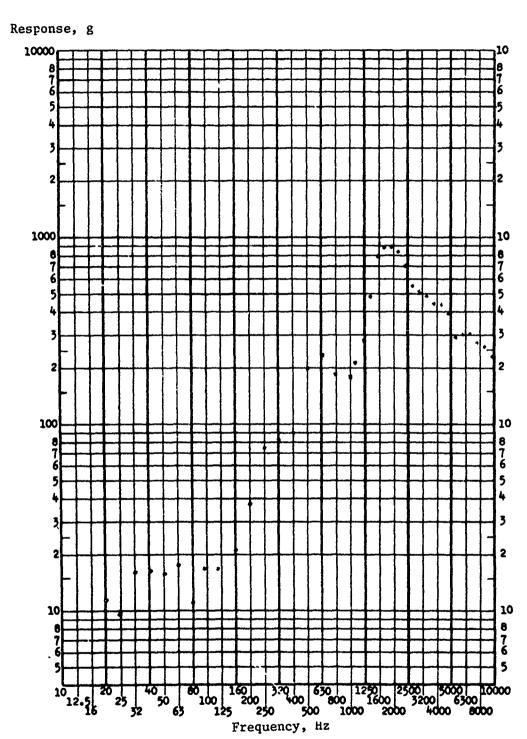




Bench Shock Test - Stage II/III Separation, Run 36 Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 36 (cont)

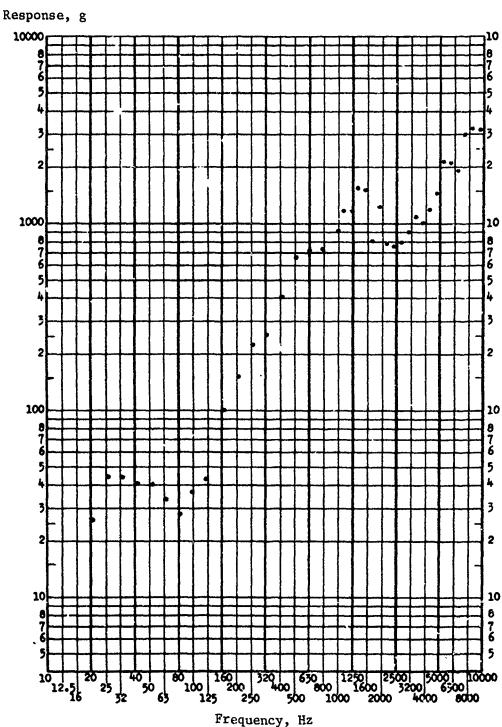
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Bench Shock Test - Stage II/III Separation, Run 36 Measurement No. 15 - Lateral axis truss top near longeron attach point

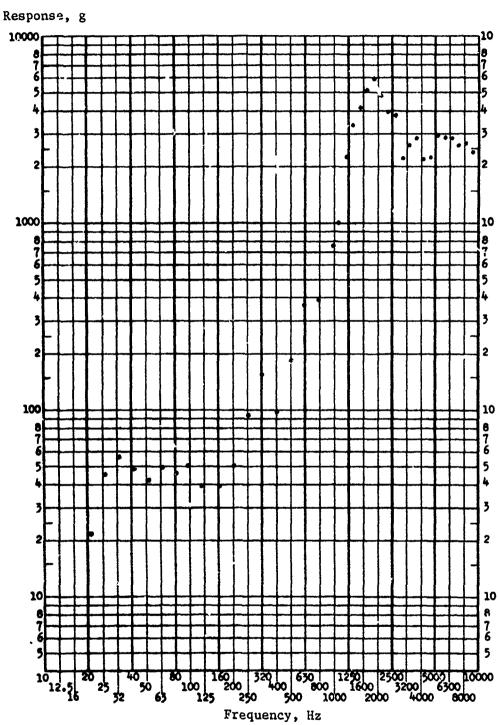
Figure 36 (concl)

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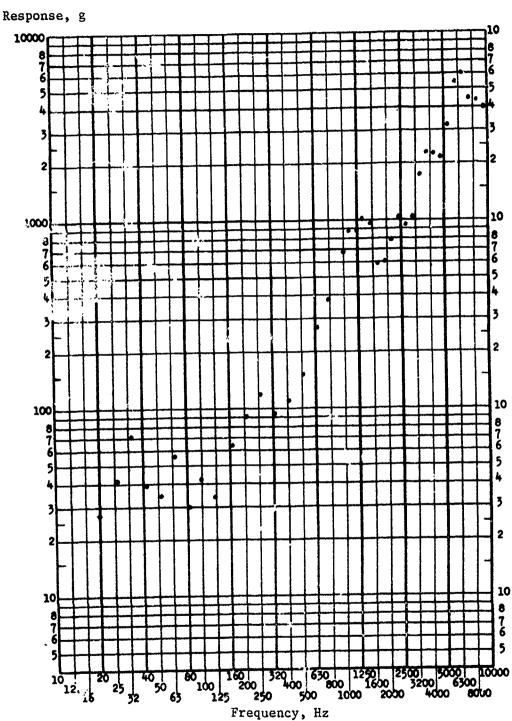
Bench Shock Test - Stage II/III Separation, kun 37 \_\_ Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 37 Run 37 Shock Response Spectrum



Bench Shock Test - Stage II/III Separation, Run 37 \_\_ Measurement No. 2 - Tangential axis longeron near station 133

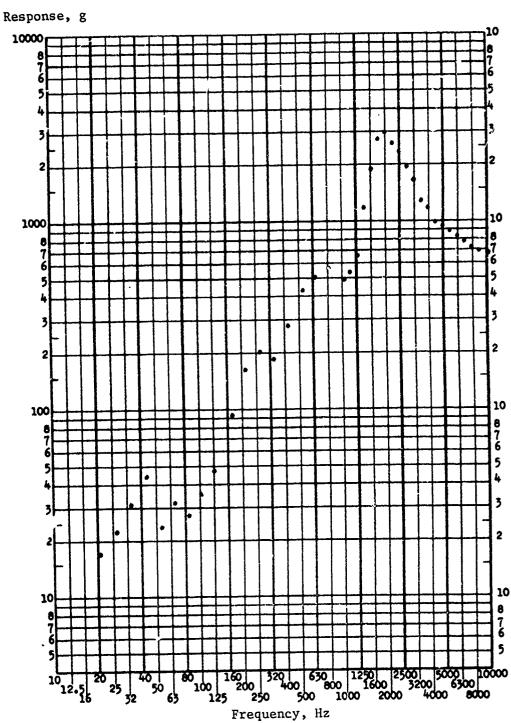
Figure 37 (cont)



Bench Shock Test - Stage II/III Separation, Run 37 \_ Measurement No. 3 - Radial axis longeron near station 133 Leave Vinnerbit on November of the contract of

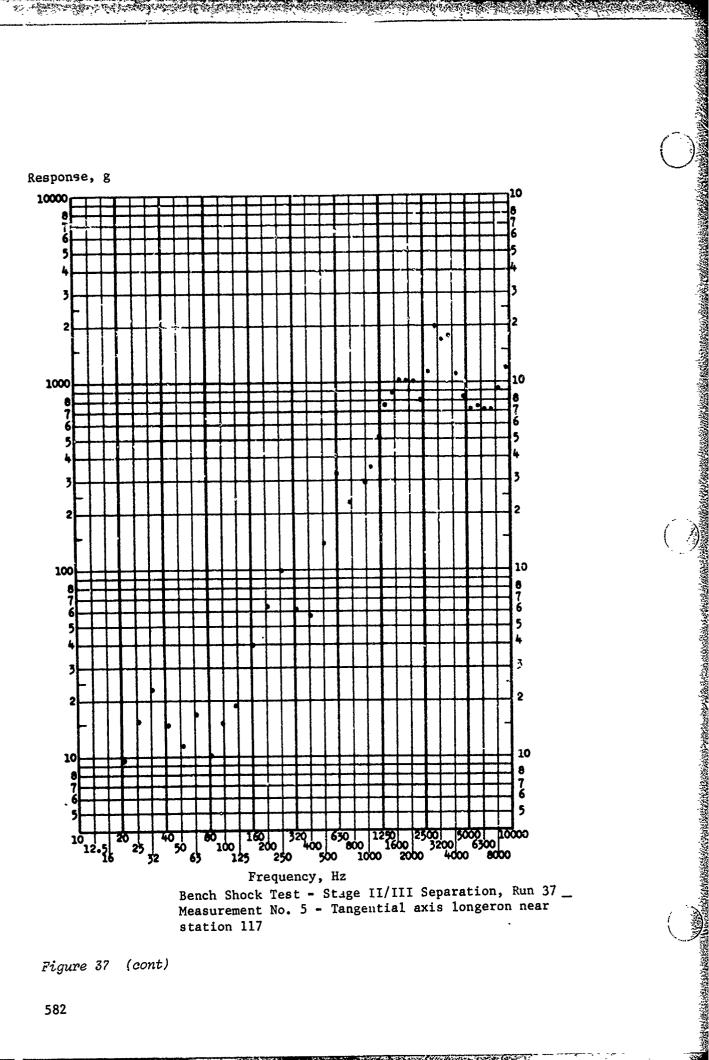
Figure 37 (cont)

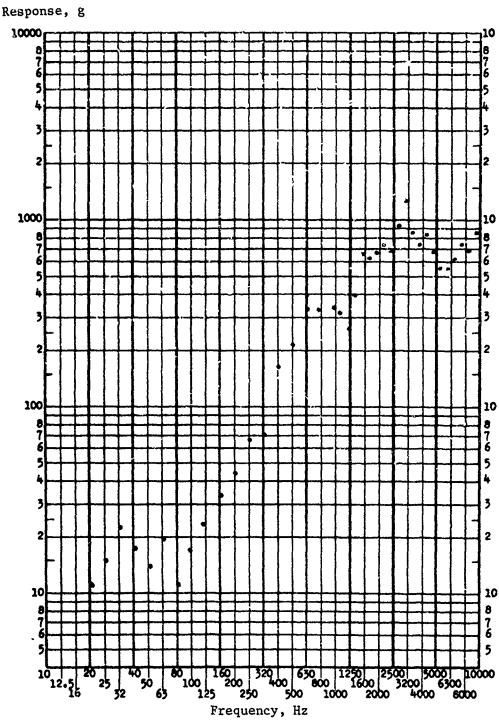
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Bench Shock Test - Stage II/III Separation, Run 37 \_\_ Measurement No. 4 - Longitudinal axis longeron near station 117

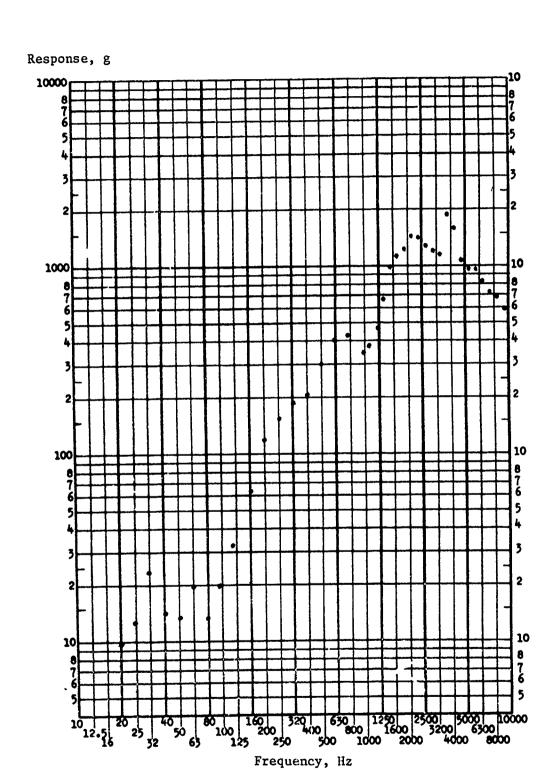
Figure 37 (cont)





Bench Shock Test - Stage II/III Separation, Run 37 \_ Measurement No. 6 - Radial axis longeron near station 117

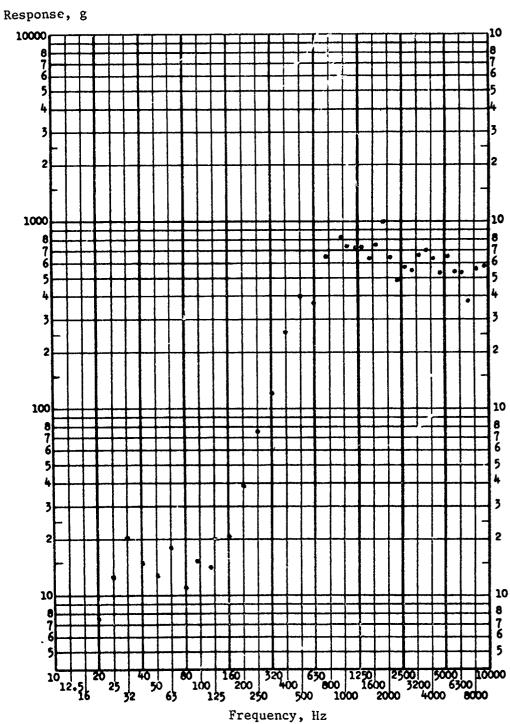
Figure 37 (cont)



Bench Shock Test - Stage II/III Separation, Run 37 \_\_\_ Measurement No. 7 - Longitudinal axis longeron near station 77

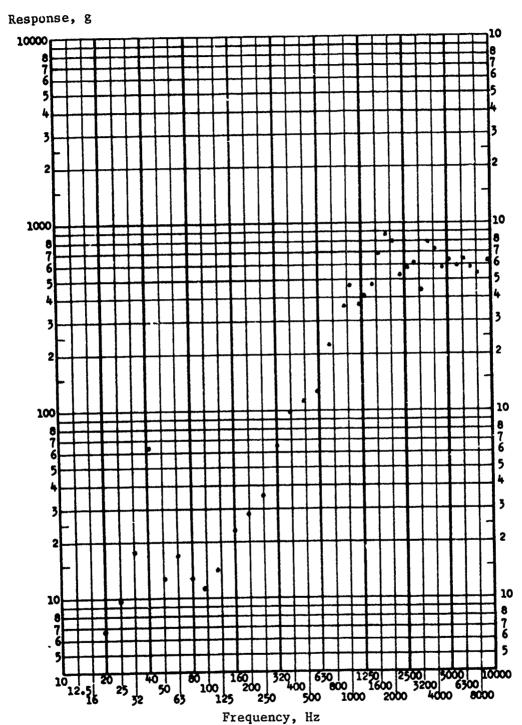
Proposition of the contract of

Figure 37 (cont)



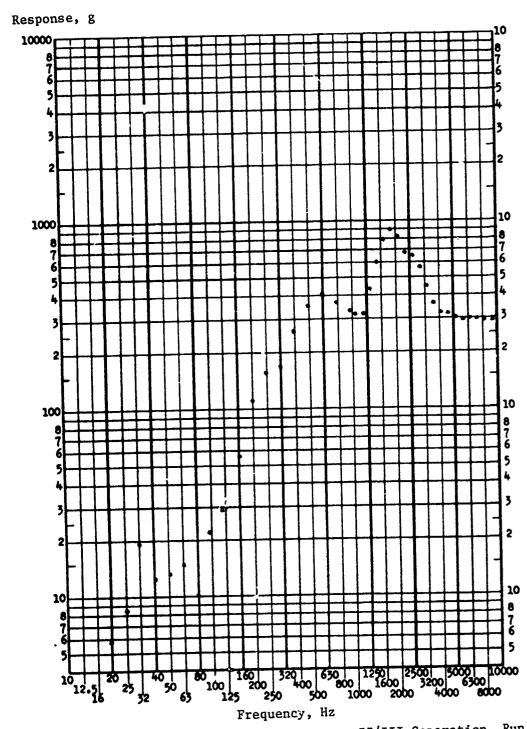
Bench Shock Test - Stage II/III Separation, Run 37 \_ Measurement No. 8 - Tangential axis longeron near station 77

Figure 37 (cont)



Bench Shock Test - Stage II/III Separation, Run 37 \_\_\_ Measurement No. 9 - Radial axis longeron near station 77

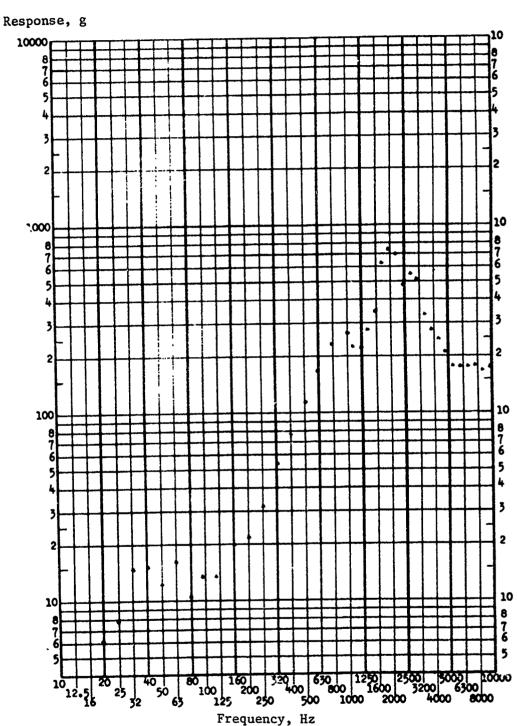
Figure 37 (cont)



Bench Shock Test - Stage II/III Separation, Run 37 \_\_ Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

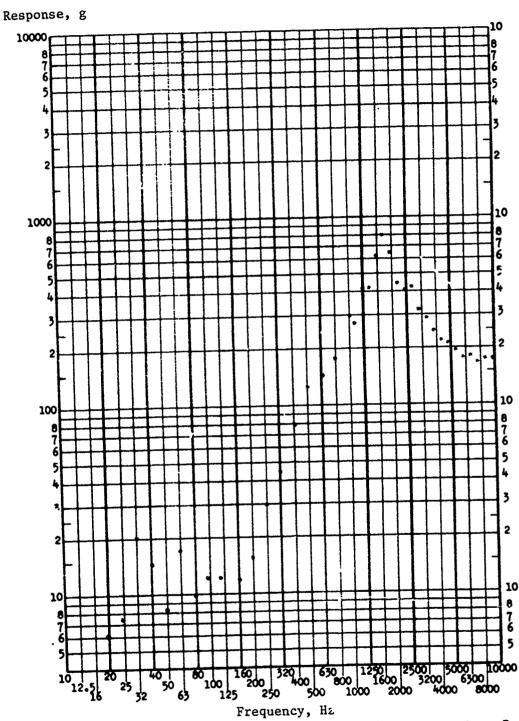
Figure 37 (cont)

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Bench Shock Test - Stage II/III Separation, Run 37 \_\_ Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

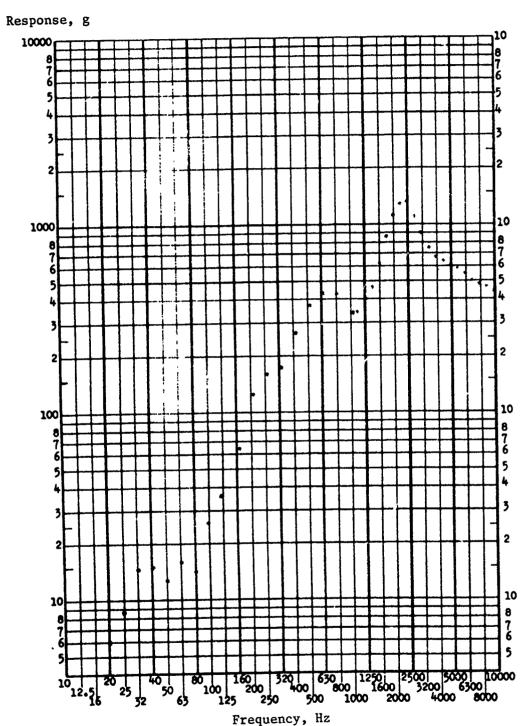
Figure 37 (cont)



Bench Shock Test - Stage II/III Separation, Run 37 \_\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

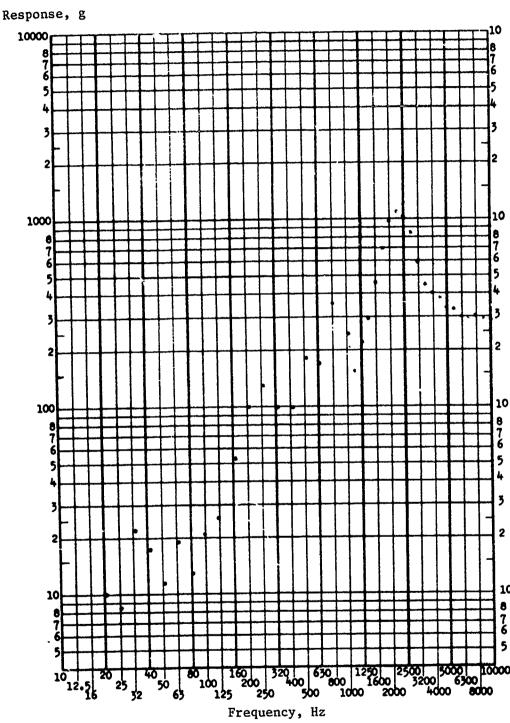
Figure 37 (cont)

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Bench Shock Test - Stage II/III Separation, Run 37\_ Measurement No. 13 - Longitudinal axis truss top near longeron attach point

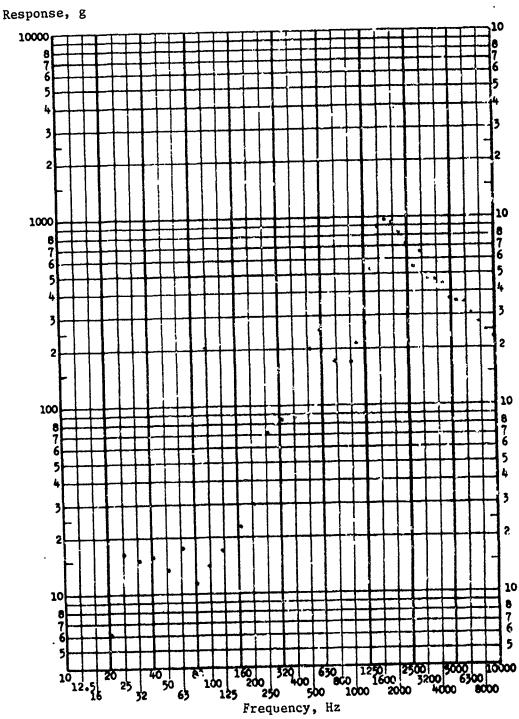
Figure 37 (cont)



Bench Shock Test - Stage II/III Separation, Run 37\_ Measurement No. 14 - Lateral axis truss top near longeron attach point

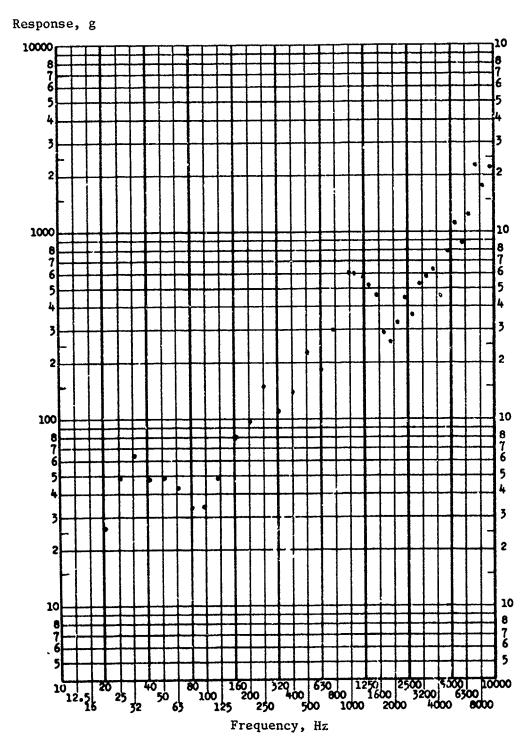
Figure 37 (cont)

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Bench Shock Test - Stage II/III Separation, Run 37\_ Measurement No. 15 - Lateral axis truss top near longeron attach point

Figure 37 (concl)



Bench Shock Test - Stage II/III Separation, Run 38 \_\_\_\_\_ Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 38 Run 38 Shock Response Spectrum

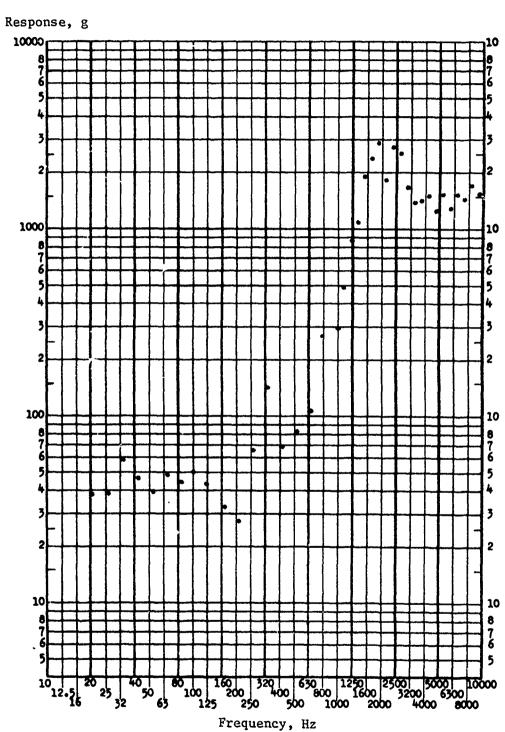
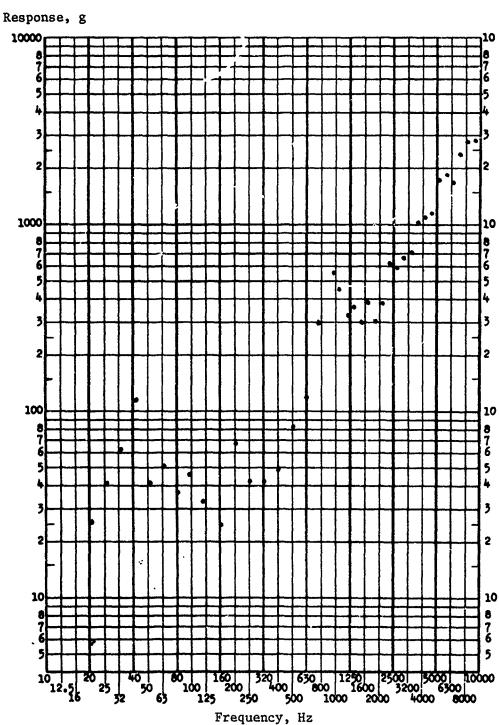


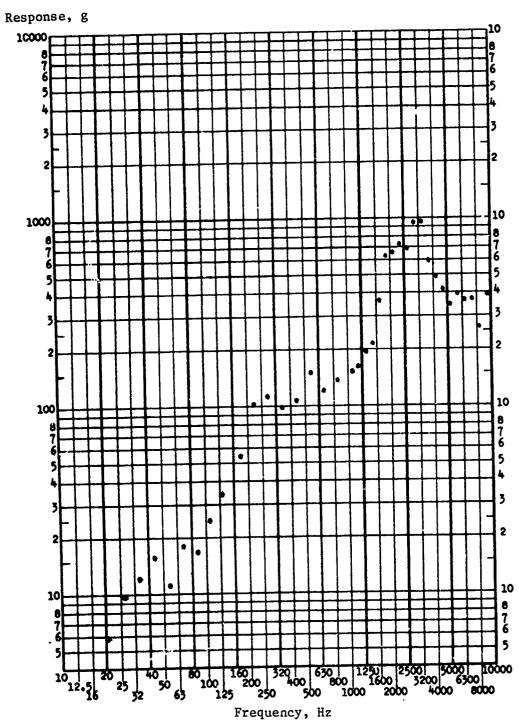
Figure 38 (cont)

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Bench Shock Test - Stage II/III Separation, Run 38 \_\_ Measurement No. 3 - Radial axis longeron near station 133

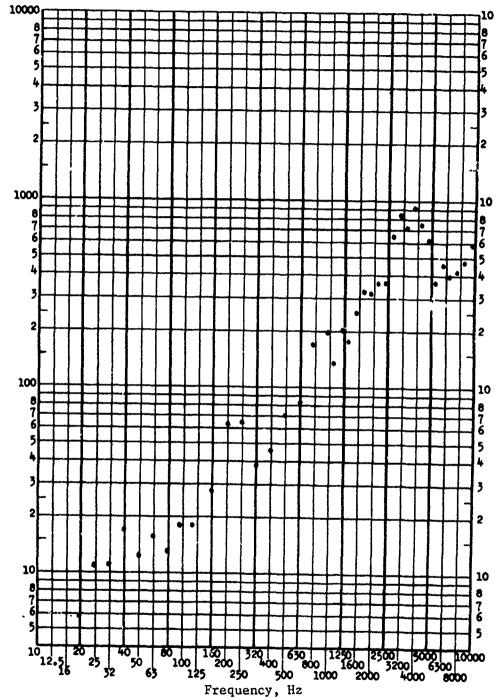
Figure 38 (cont)



Bench Shock Test - Stage II/III Separation, Run 38\_ Measurement No. 4 - Longitudinal axis longeron near station 117

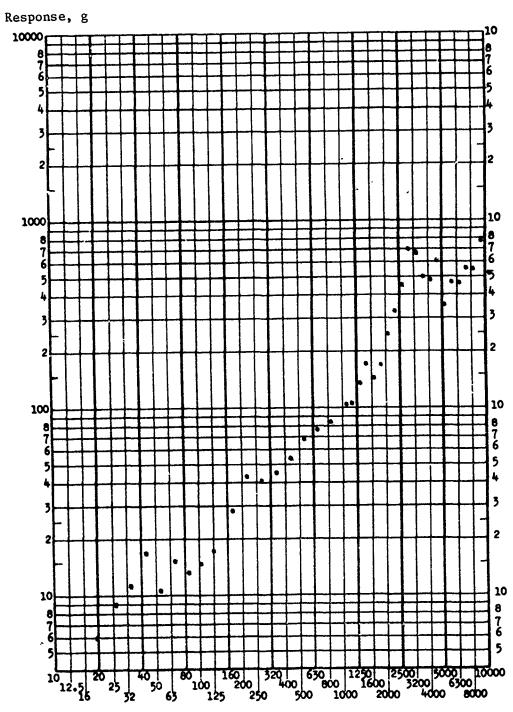
Figure 38 (cont)





Bench Shock Test - Scage II/III Separation, Run 38 \_\_\_\_\_ Measurement No. 5 - Tangential axis longeron near station 117

Figure 38 (cont)

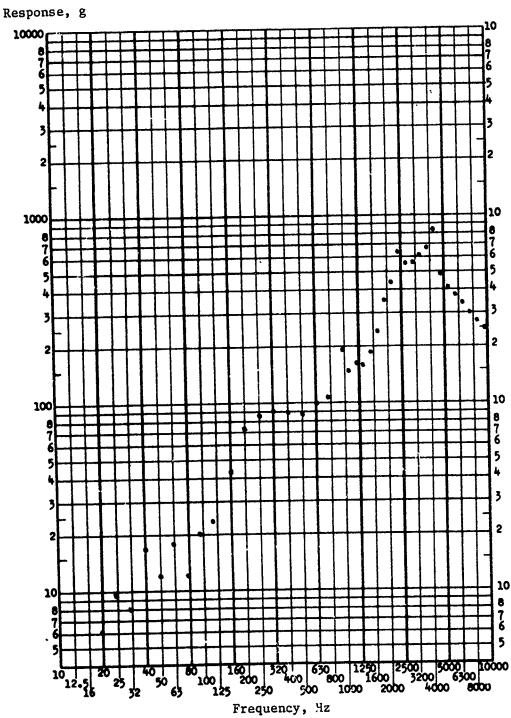


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 38\_\_

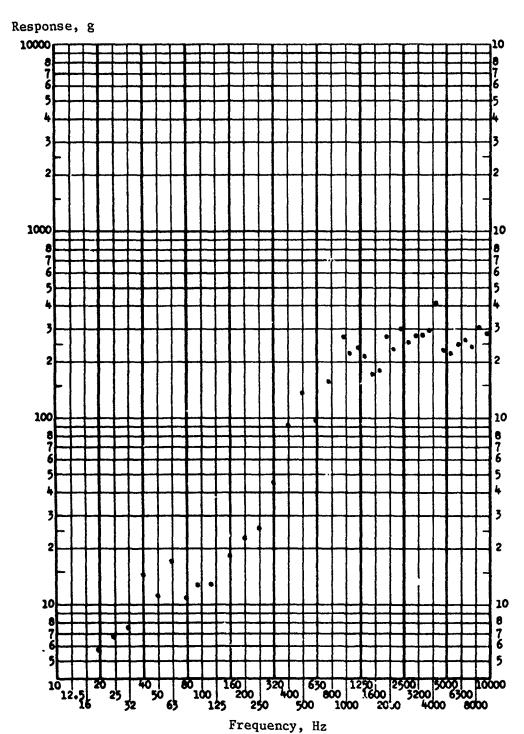
Measurement No. 6 - Radial axis longeron near
station 117

Figure 38 (cont)



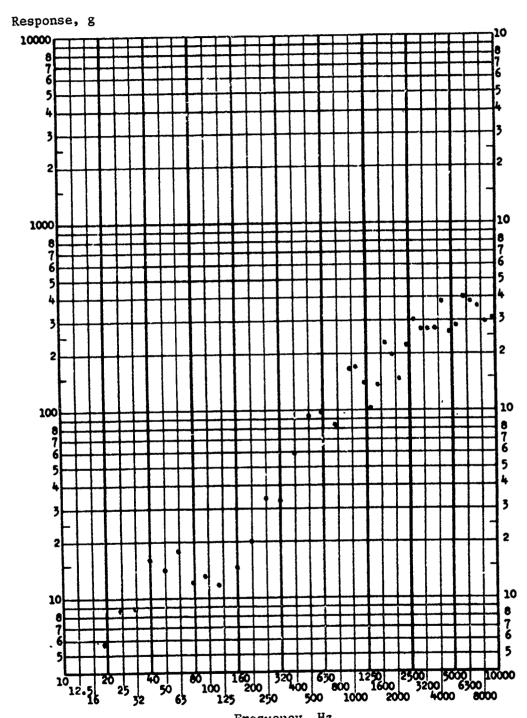
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Figure 38 (cont)



Bench Shock Test - Stage II/III Separation, Run 38\_ Measurement No. 8 - Tangential axis longeron near station 77

Figure 38 (cont)



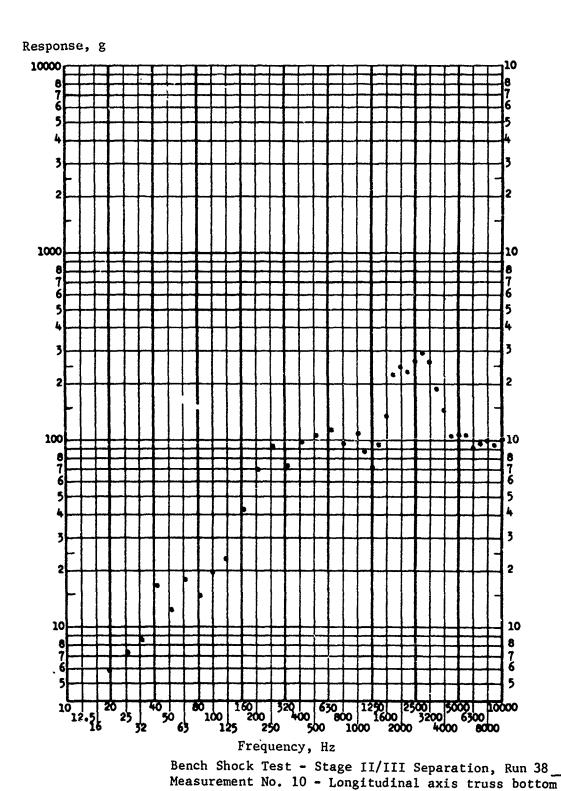
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Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 38\_

Measurement No. 9 - Radial axis longeron near
station 77

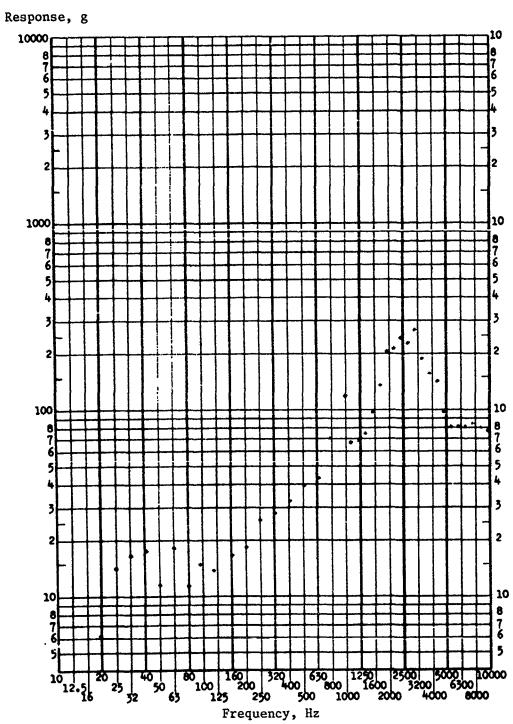
Figure 38 (cont)



near station 114 attach point

Figure 38 (cont)

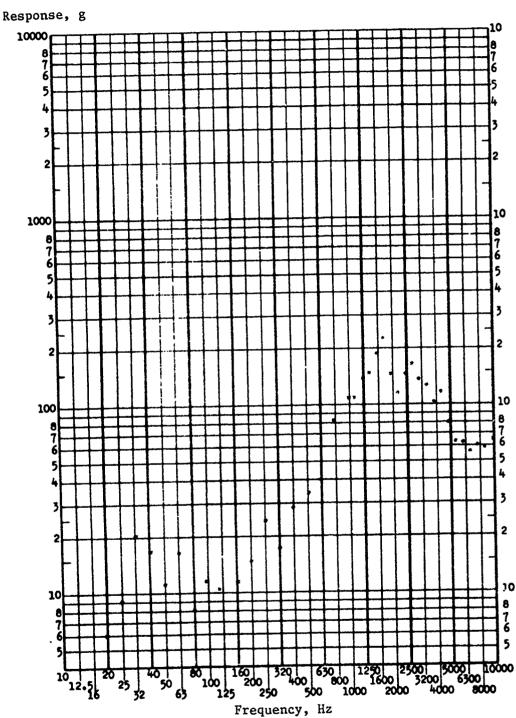
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Bench Shock Test - Stage II/III Separation, Run 38\_ Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

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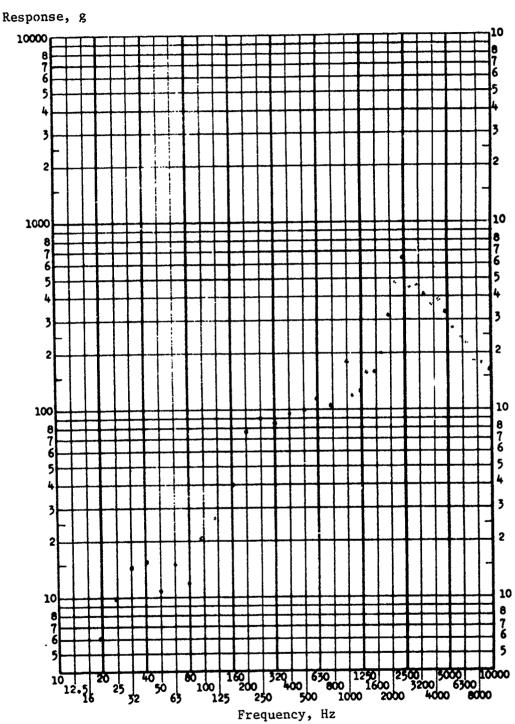
Figure 38 (cont)



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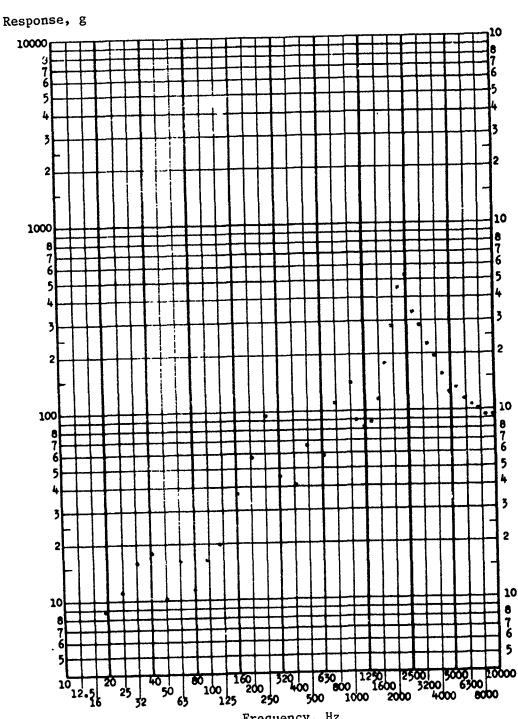
Bench Shock Test - Stage II/III Separation, Run 38\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 38 (cont)



Bench Shock Test - Stage II/III Separation, Run 38\_\_\_ Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 38 (cont)



Frequency, Hz

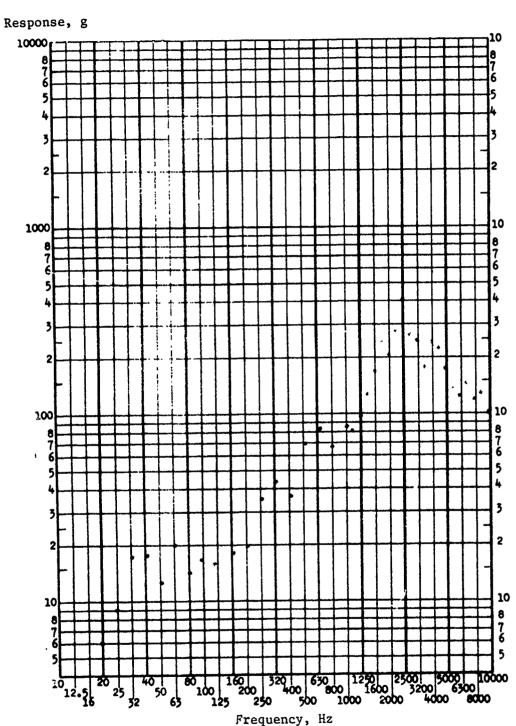
Bench Shock Test - Stage II/III Separation, Run 38\_

Measurement No. 14 - Lateral axis truss top near

longeron attach point

Figure 38 (cont)

A PRODUCT RECENTIONS REPORTED TO THE PROPERTY OF THE PROPERTY



Bench Shock Test - Stage II/III Separation, Run 38\_ Measurement No. 15 - Lateral axis truss top near longeron attach point

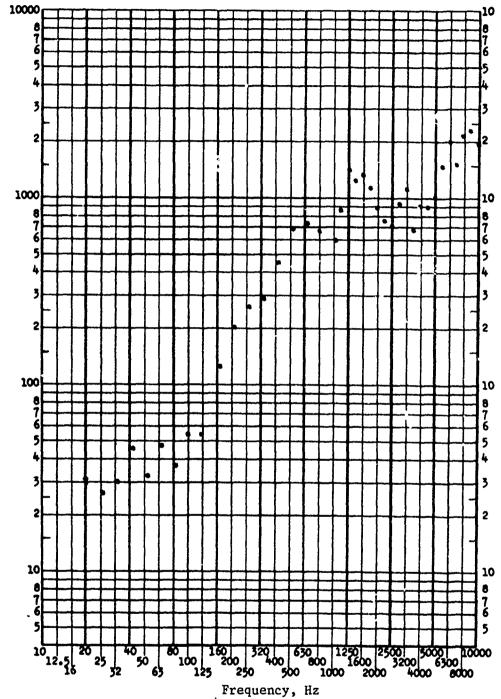
Figure 38 (concl)

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Bench Shock Test - Stage II/III Separation, Run 39 Measurement No. 1 - Longitudinal axis longeron near station 133

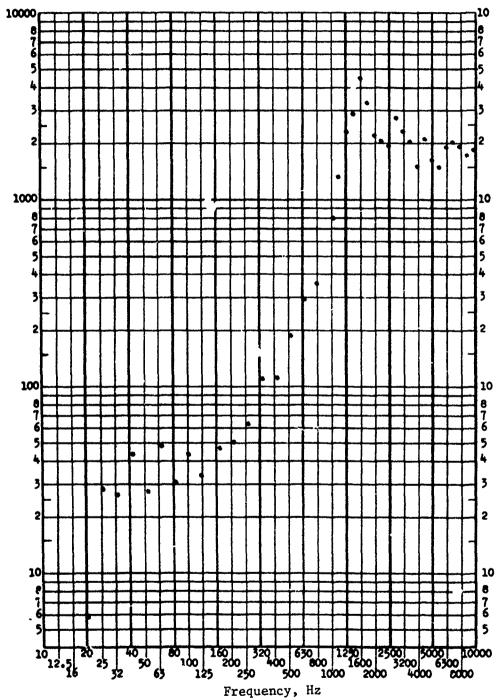
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Figure 39 Run 39 Shock Response Spectrum



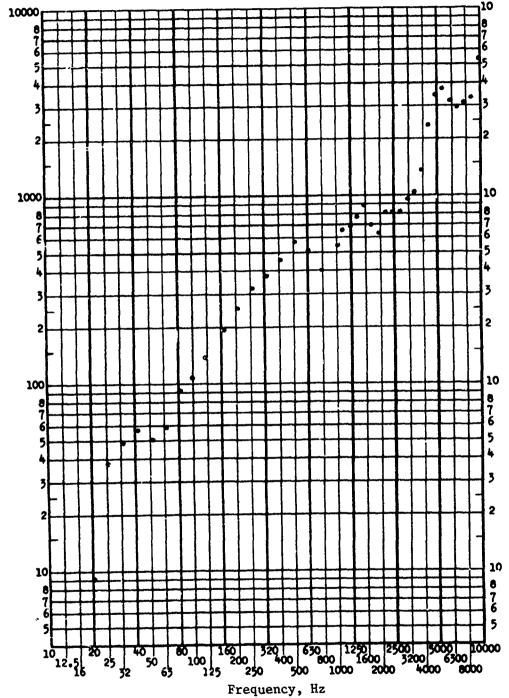


Bench Shock Test - Stage II/III Separation, Run 39 Measurement No. 2 - Tangential axis longeron near station 133

Figure 39 (cont)

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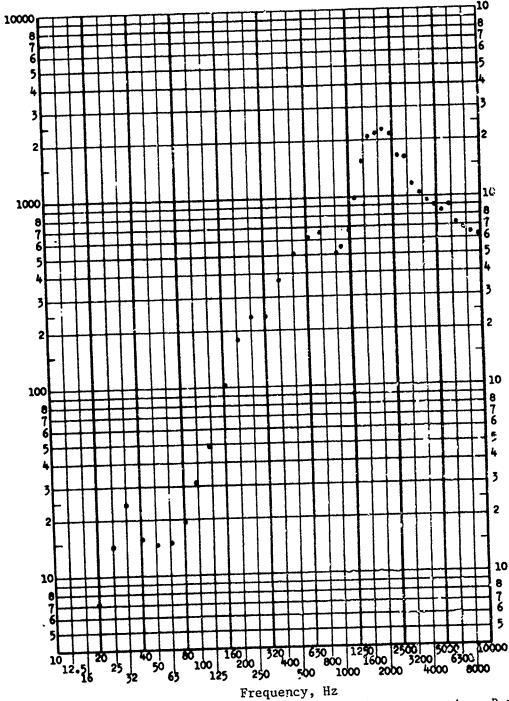


Bench Shock Test - Stage II/III Separation, Run 39 Measurement No. 3 - Radial axis longeron near station 133

and the second s

Figure 39 (cont)

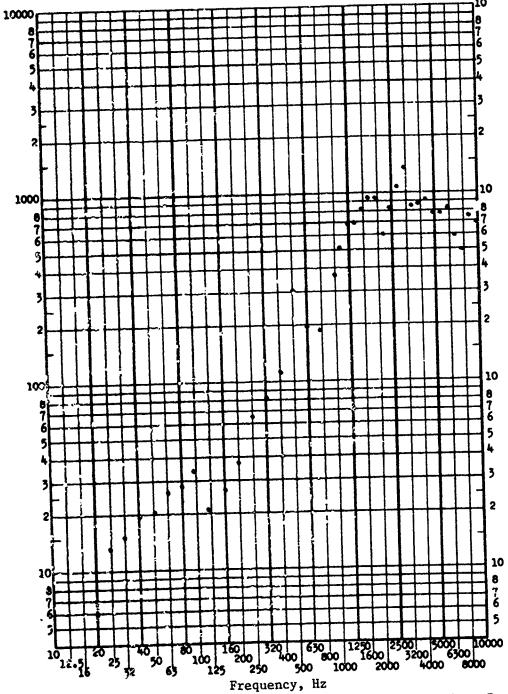




Bench Shock Test - Stage II/III Separation, Rt-n 39
Measurement No. 4 - Longitudinal axis longeron near
station 117

Figure 39 (cont)

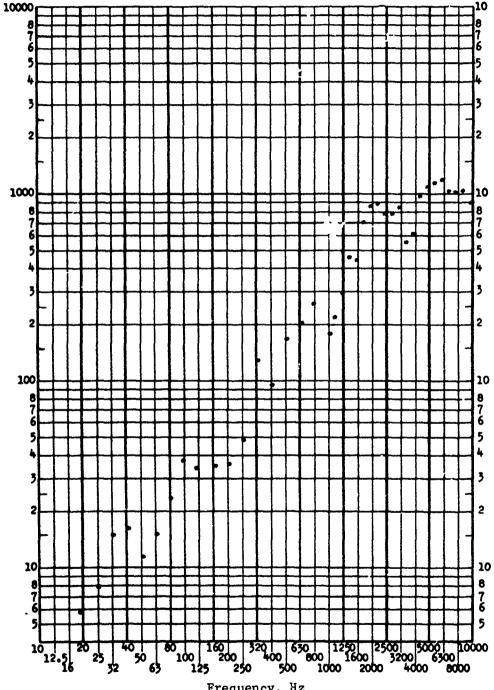




Bench Shock Test - Stage II/III Separation, Run 39 Measurement No. 5 - Tangential axis longeron near station 117

Figure 39 (cont)





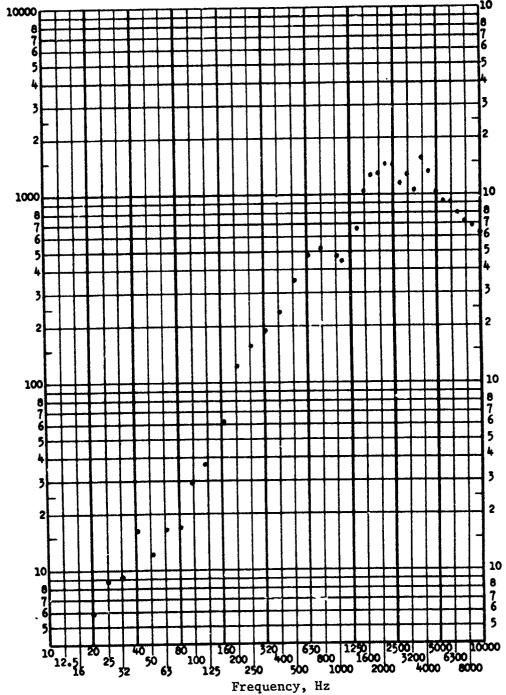
Frequency, Hz
ck Test - Stage II/III Sepa

Bench Shock Test - Stage II/III Separation, Run 39 Measurement No. 6 Radial axis longeron near station 117

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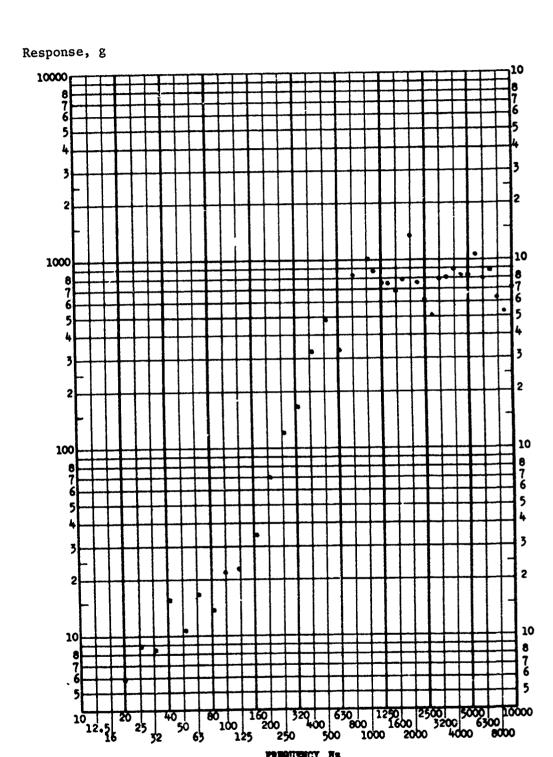
Figure 39 (cont)





Bench Shock Test - Stage II/III Separation, Run 39 Measurement No. 7 - Longitudinal axis longeron near station 77

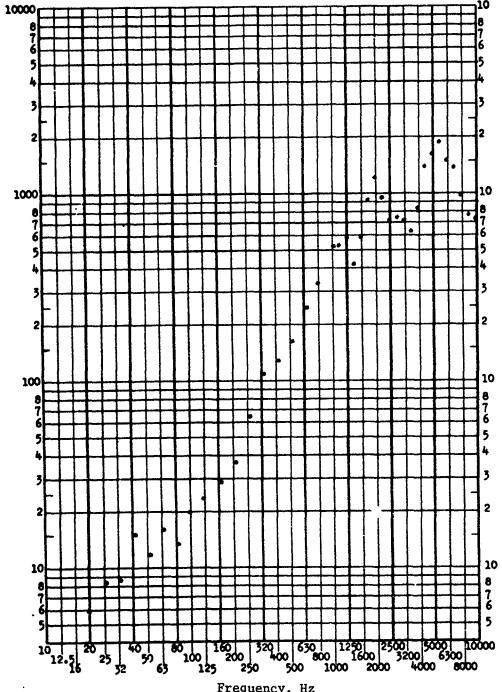
Figure 39 (cont)



Bench Shock Test - Stage II/III Separation, Rv., 39 Measurement No. 8 - Tangential axis longeron near station 77

Figure 39 (cont)

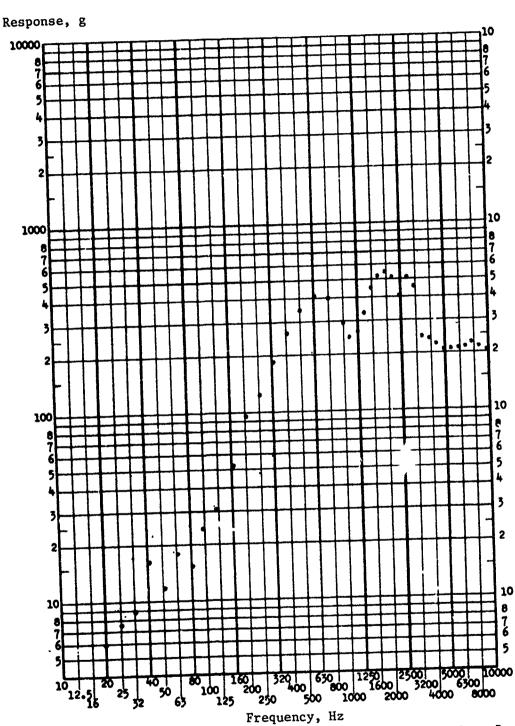




Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 39 Measurement No. 9 - Radial axis longeron near station 77

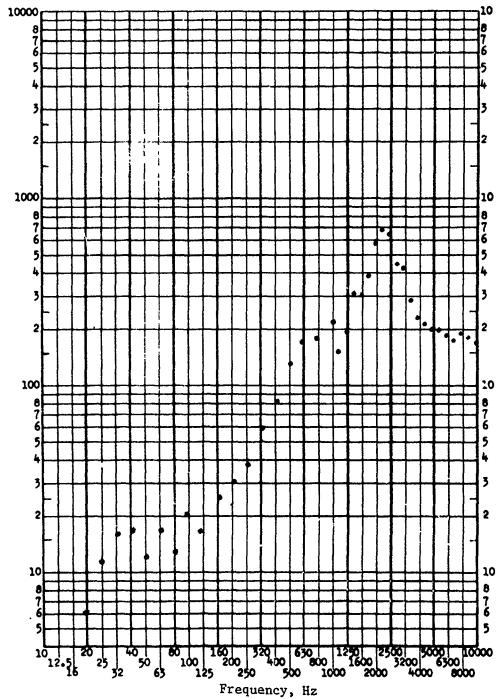
Figure 39 (cont)



Bench Shock Test - Stage II/III Separation, Run 39
Measurement No. 10 - Longitudinal axis truss bottom
near station 114 attach point

Figure 39 (cont)

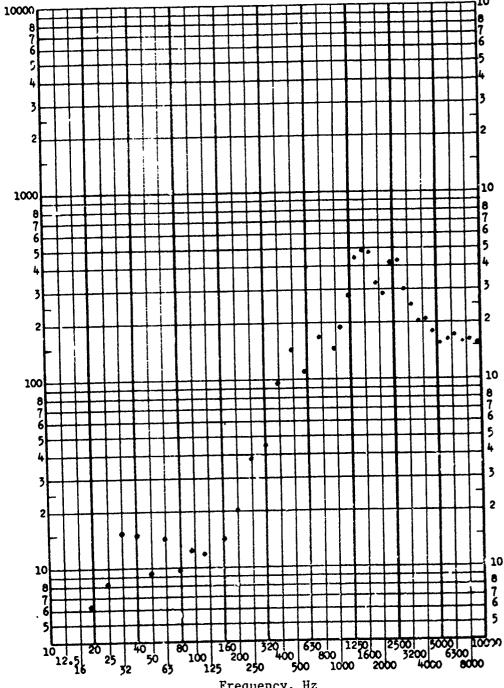




Bench Shock Test - Stage II/III Separation, Run 39 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 39 (cont)





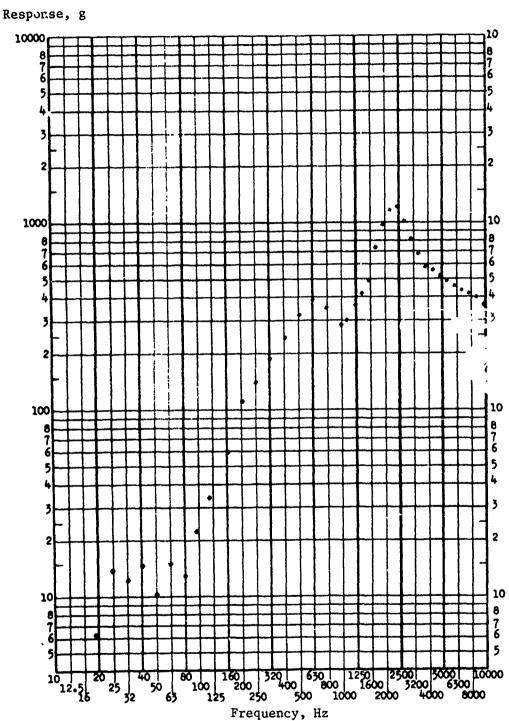
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 39

Measurement No. 12 - Vertical axis truss bottom

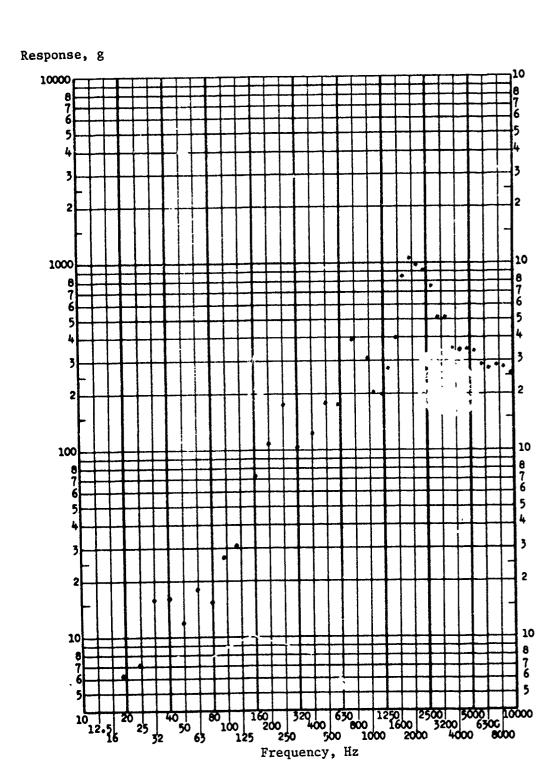
near station 114 attach point

Figure 39 (cont)



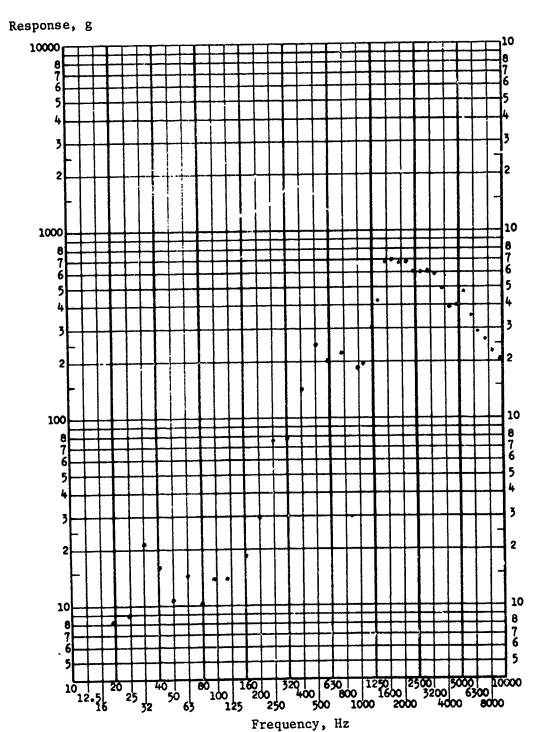
Bench Shock "est - Stage II/III Separation, Run 39 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 39 (cont)



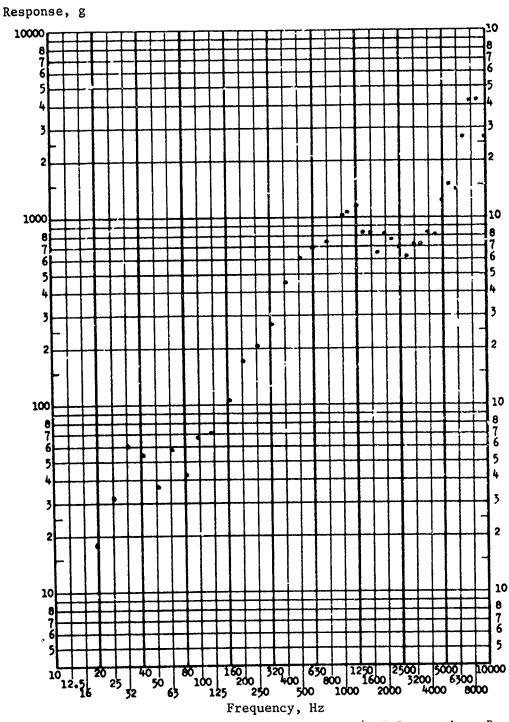
Bench Shock Test - Stage II/III Separation, Run 39 Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 39 (cont)



Bench Shock Test - Stage II/III Separation, Run 39 Measurement No. 15 - Lateral axis truss top near longeron attach point

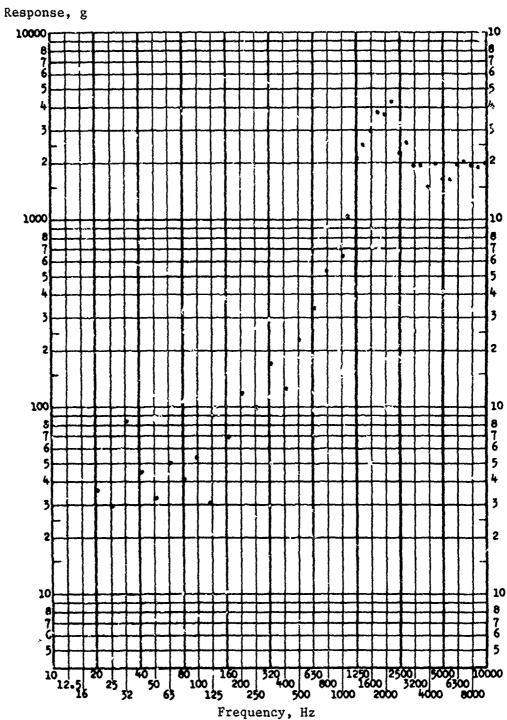
Figure 39 (concl)



Bench Shock Test - Stage II/III Separation, Run 40\_ Measurement No. 1 - Longitudinal axis longeron near station 133

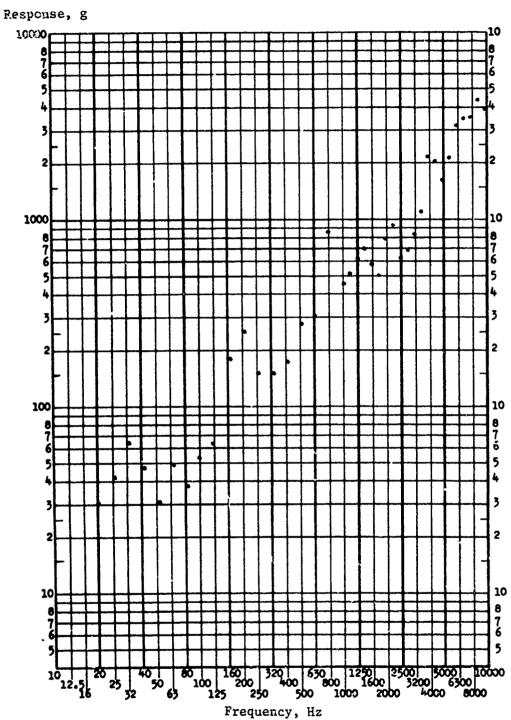
THE PROPERTY OF THE PROPERTY O

Figure 40 Run 40 Shock Response Spectrum



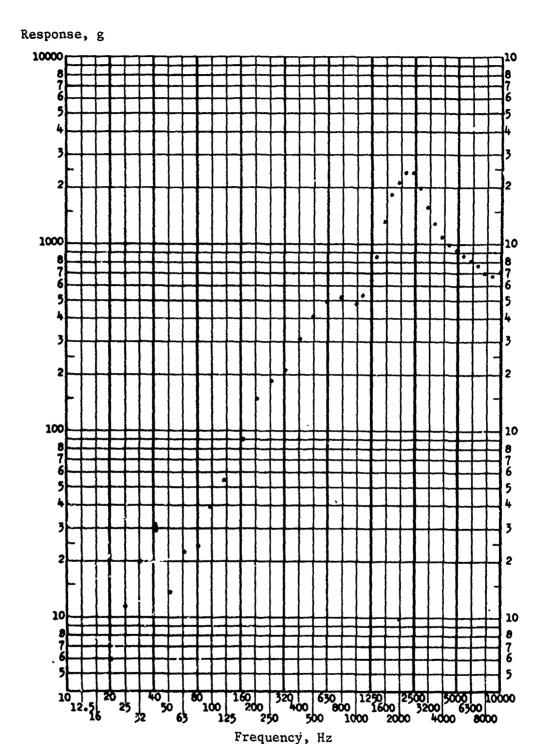
Bench Shock Test - Stage II/III Separation, Run 40\_ Measurement No. 2 - Tangential axis longeron near station 133

Figure 40 (cont)



Bench Shock Test - Stage II/III Separation, Run 40\_\_\_ Measurement No. 3 - Radial axis longeron near station 133

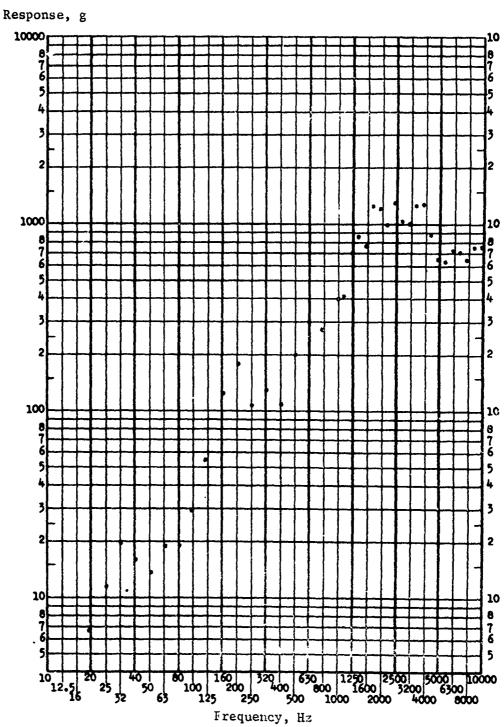
Figure 40 (cont)



Bench Shock Test - Stage II/III Separation, Run 40\_ Measure.ent No. 4 - Longitudinal axis longeron near station 117

Figure 40 (cont)

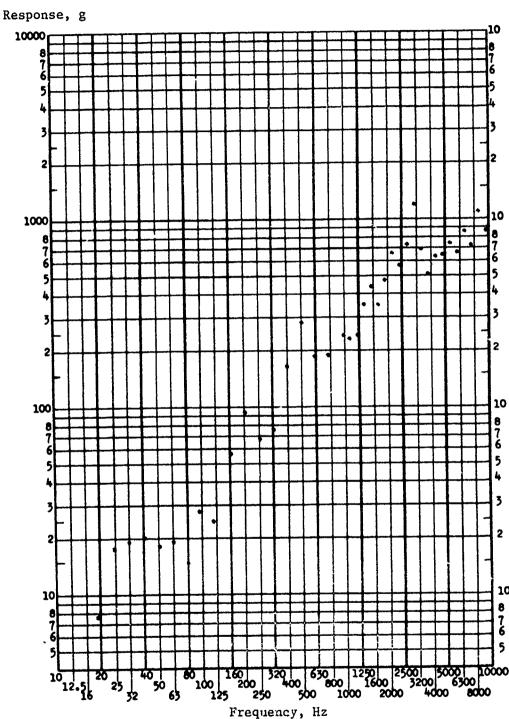
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Bench Shock Test - Stage II/III Separation, Run 40\_\_ Measurement No. 5 - Tangential axis longeron near station 117

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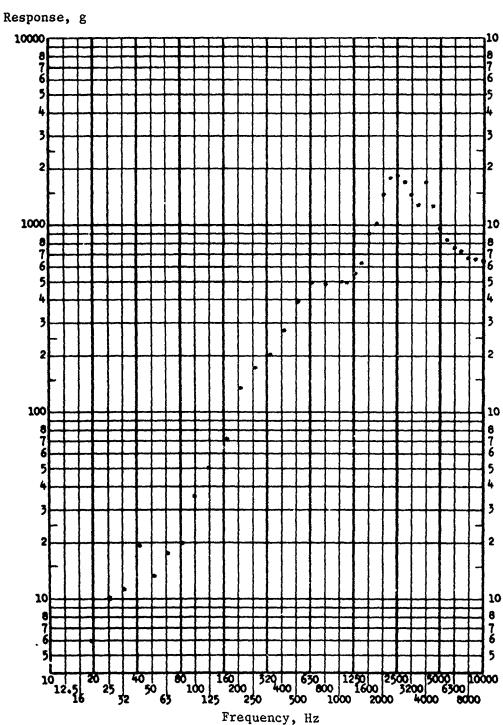
Figure 40 (cont)



Bench Shock Test - Stage II/III Separation, Run 40\_ Measurement No. 6 - Radial axis longeron near station 117

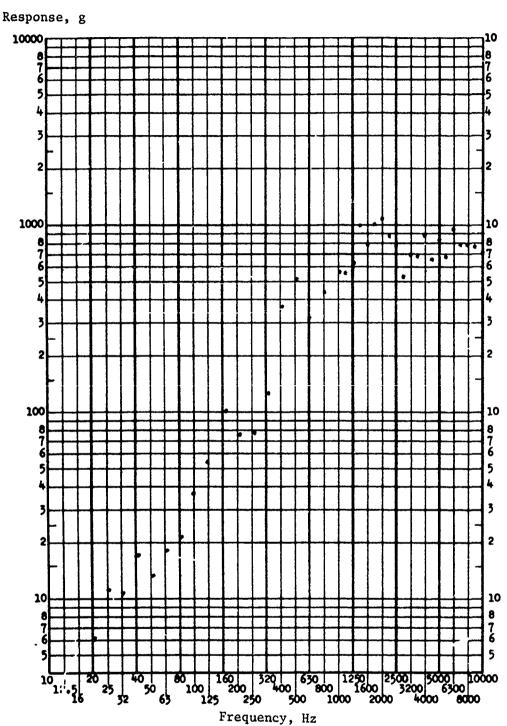
Figure 40 (cont)

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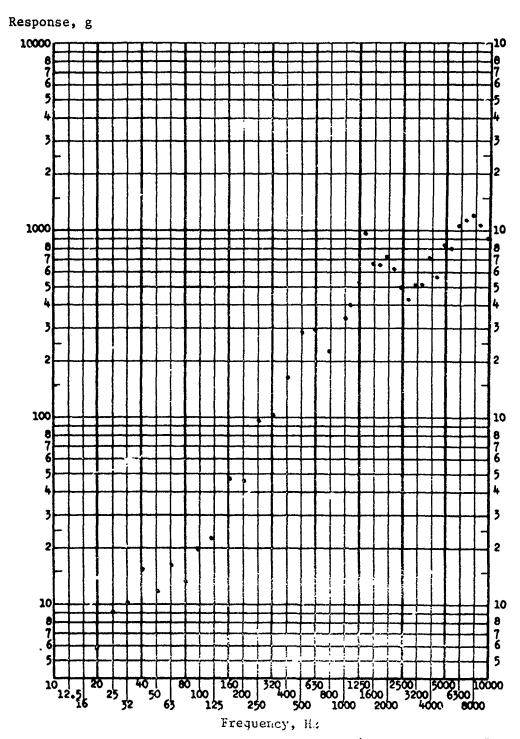
Bench Shock Test - Stage II/III Separation, Run 40\_ Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 40 (cont)



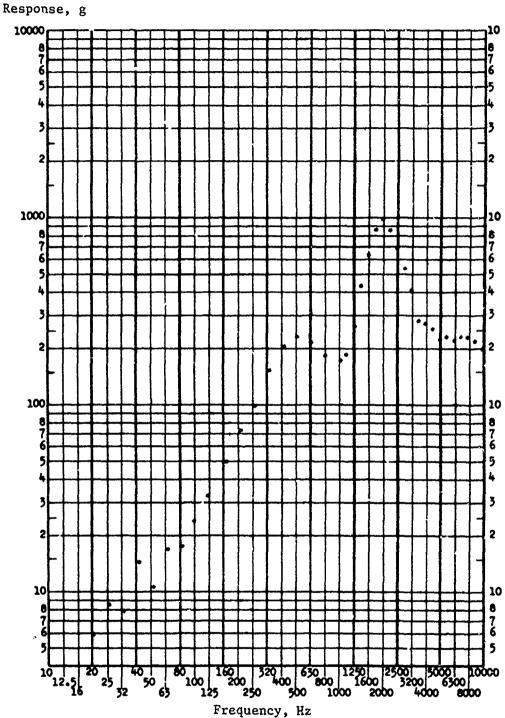
Bench Shock Test - Stage II/III Separation, Run 40\_\_Measurement No. 8 - Tangential axis longeron near station 77

Figure 40 (cont)



Bench Shock Test - Stage JI/III Separation, Run 40\_ Measurement No. 9 - Radial axis longeron near station 77

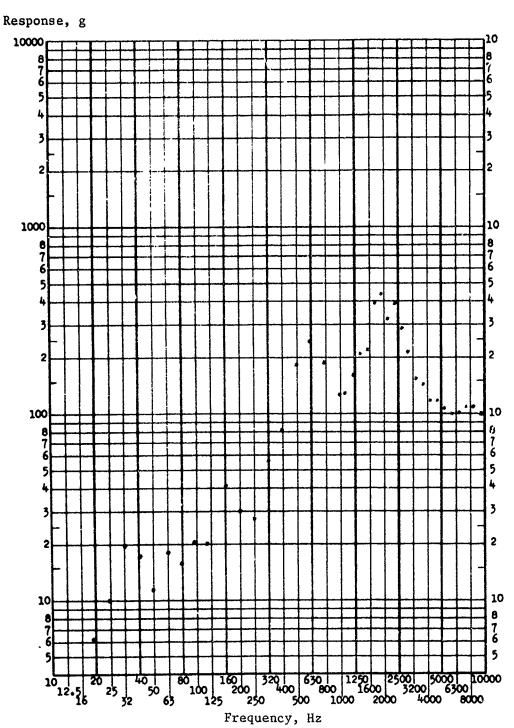
Figure 40 (cont)



Bench Shock Test - Stage II/III Separation, Run 40 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 40 (cont)

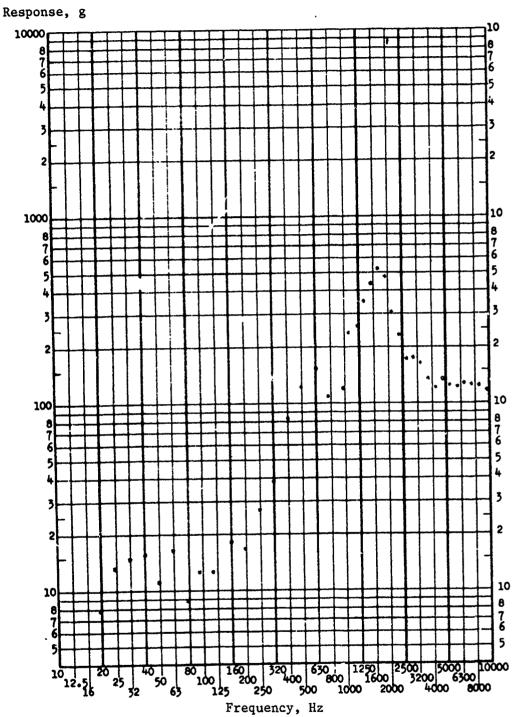
,这个人,他们就是一个人的,他们也不是一个人的,他们也是一个人的,他们也是一个人的,他们也是一个人的,他们也是一个人的,他们也是一个人的,他们也是一个人的,他们



Bench Shock Test - Stage II/III Separation, Run 40 \_\_ Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

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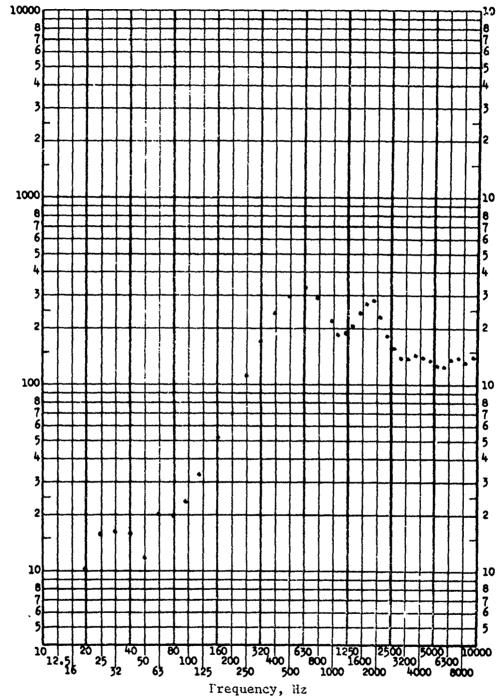
Figure 40 (cont)



Bench Shock Test - Stage II/III Separation, Run 40\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

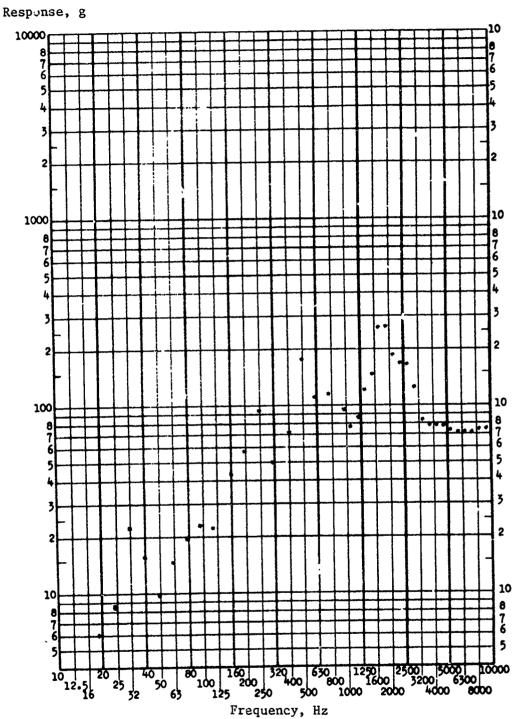
Figure 40 (cont)





Bench Shock Test - Stage II/III Separation, Run 40 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

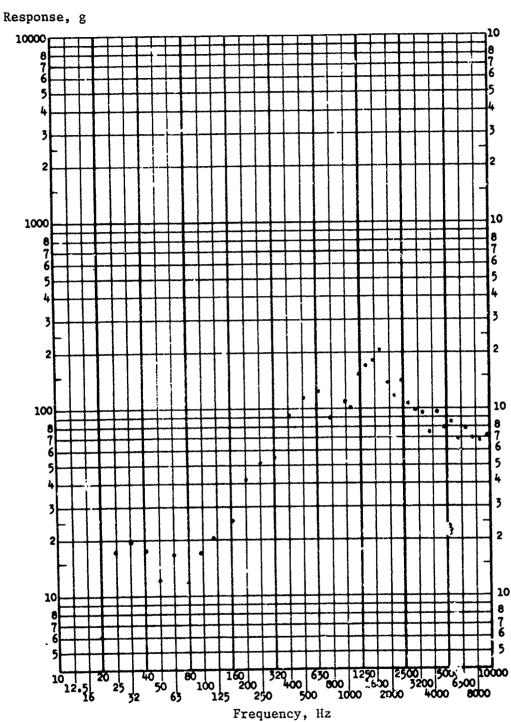
Figure 40 (cont)



Bench Shock Test - Stage II/III Separation, Run 40\_ Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 40 (cont)

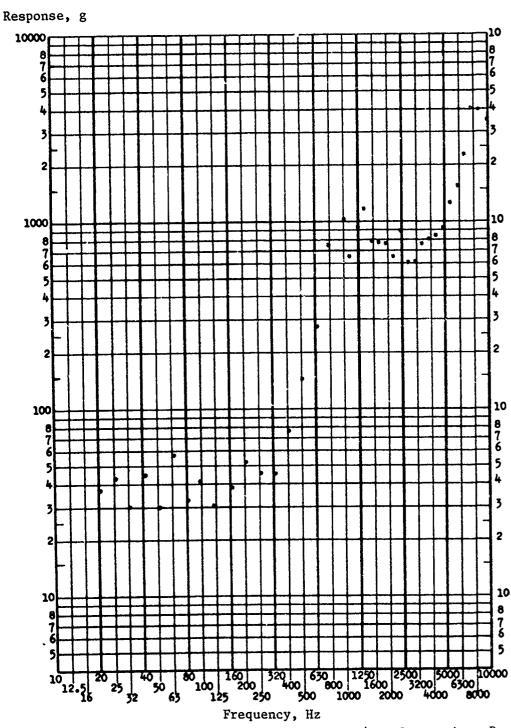
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Bench Shock Test - Stage II/III Separation, Run 40 \_ Measurement No. 15 - Lateral axis truss top near longeron attach point

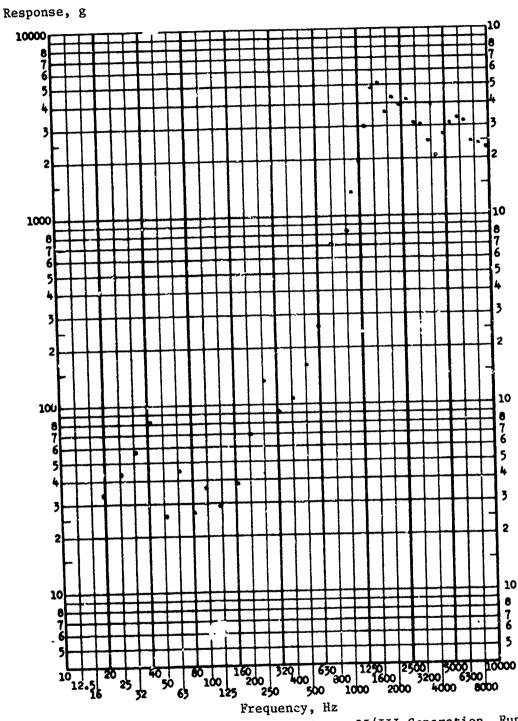
Figure 40 (concl)

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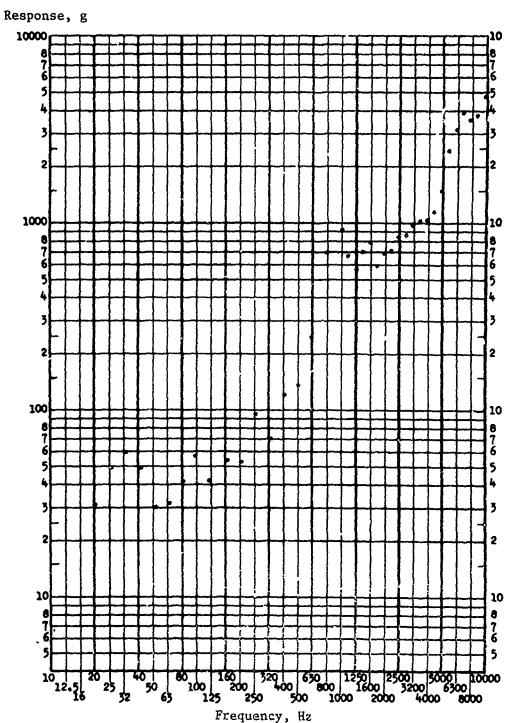
Bench Shock Test - Stage II/III Separation, Run 41\_\_ Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 41 Run 41 Shock Response Spectrum



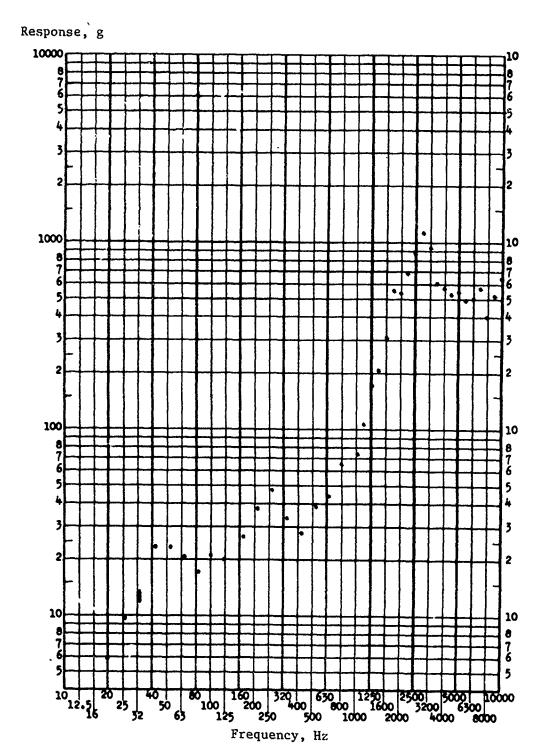
Bench Shock Test - Stage II/III Separation, Run 41\_.
Measurement No. 2 - Tangential axis longeron near
station 133

Figure 41 (cont)



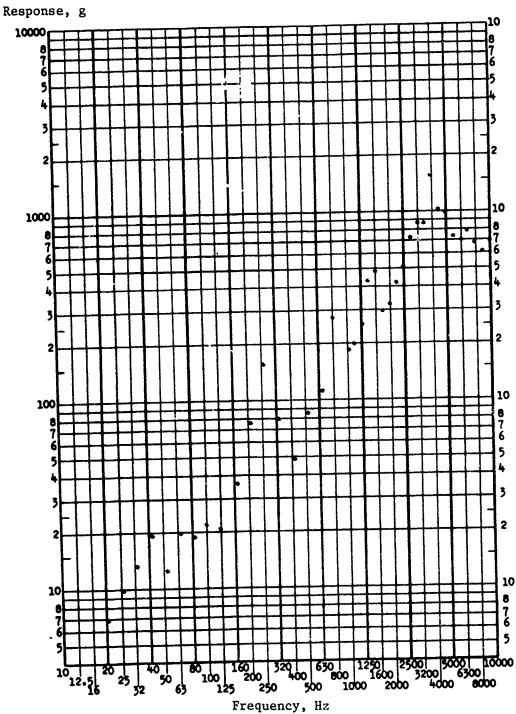
Bench Shock Test - Stage II/III Separation, Run 41\_ Measurement No. 3 - Radial axis longeron near station 133

Figure 41 (cont)



Bench Shock Test - Stage II/III Separation, Run 41\_ Measurement No. 4 - Longitudinal axis longeron near station 117

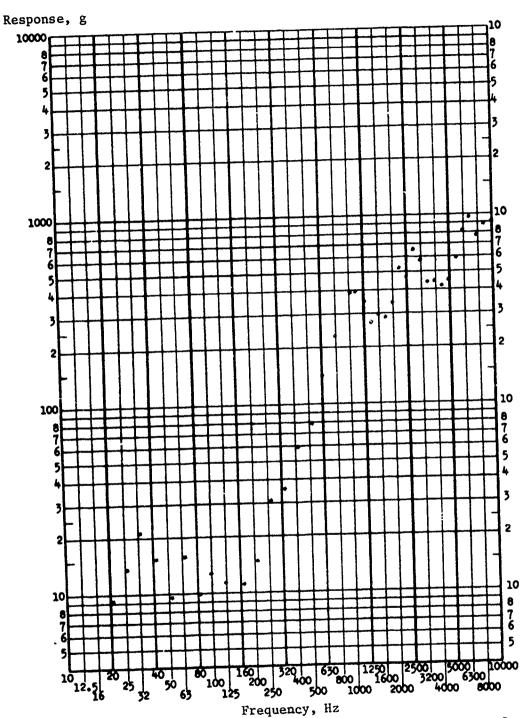
Figure 41 (cont)



Bench Shock Test - Stage II/III Separation, Run 41\_ Measurement No. 5 - Tangential axis longeron near station 117

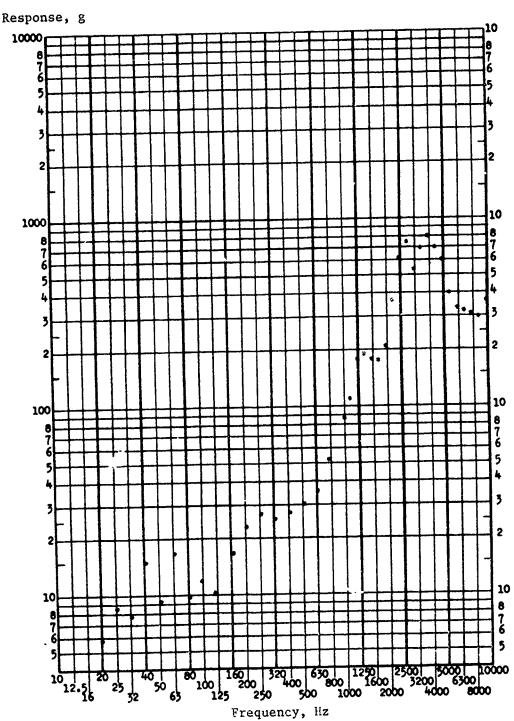
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Figure 41 (cont)



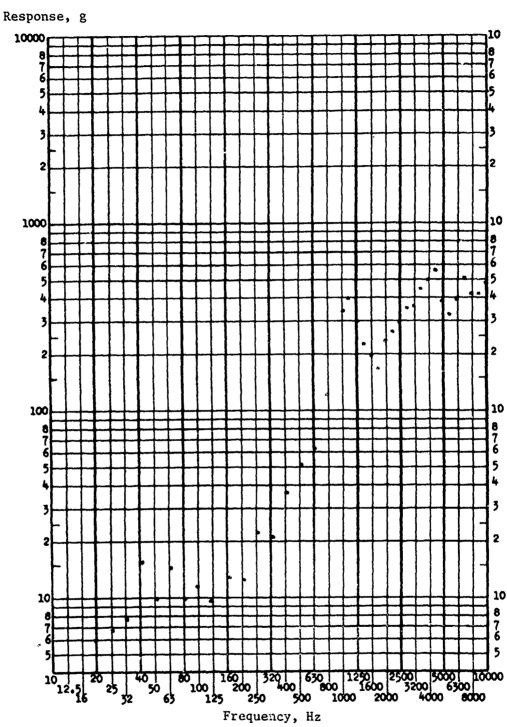
Bench Shock Test - Stage II/III Separation, Run 41\_ Measurement No. 6 - Radial axis longeron near station 117

Figure 41 (cont)



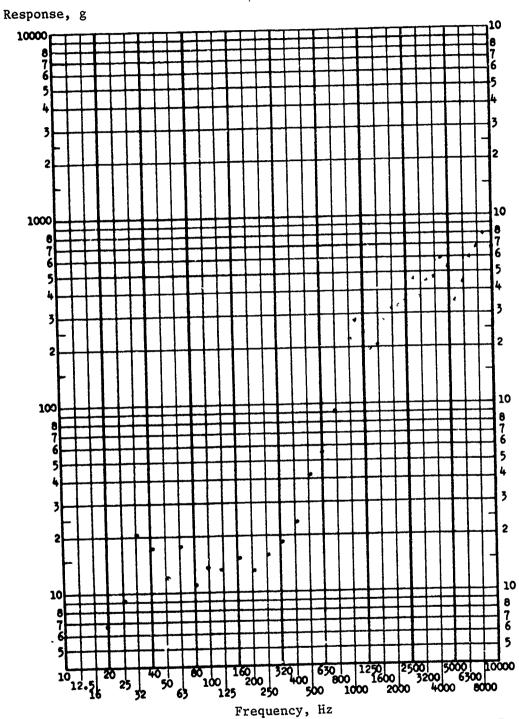
Bench Shock Test - Stage II/III Separation, Run 41\_ Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 41 (cont)



Bench Shock Test - Stage II/III Separation, Run 41\_ Measurement No. 8 - Tangential axis longeron near station 77

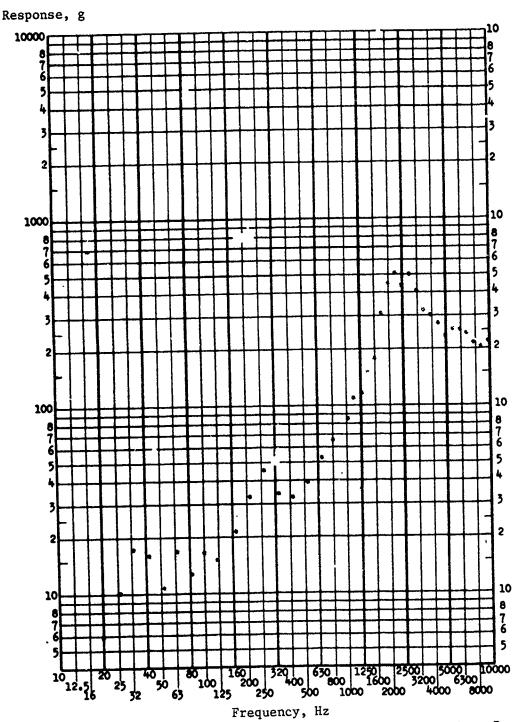
Figure 41 (cont)



Bench Shock Test - Stage II/III Separation, Run 41\_\_\_\_ Measurement No. 9 - Radial axis longeron near station 77

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Figure 41 (cont)

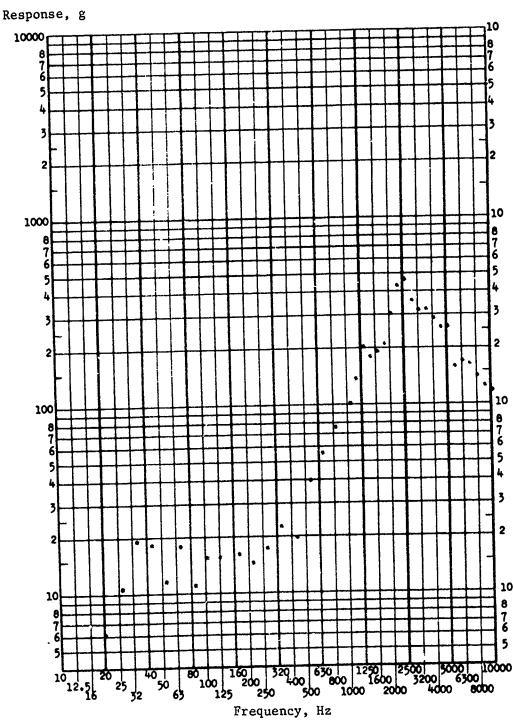


Bench Shock Test - Stage II/III Separation, Run 41\_ Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 41 (cont)

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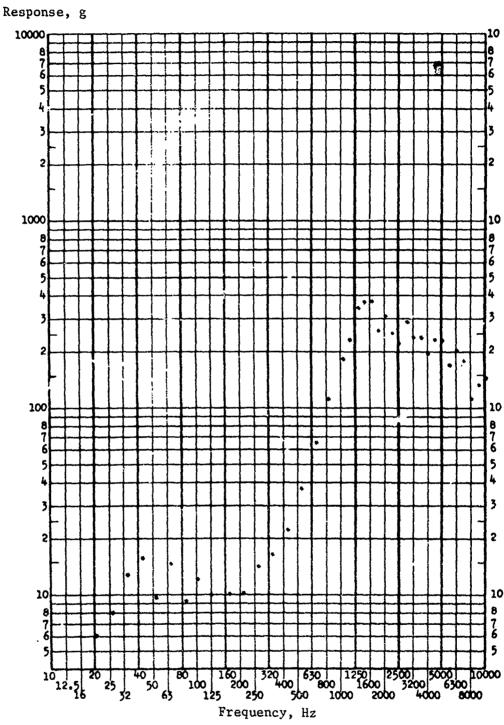
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Bench Shock Test - Stage II/III Separation, Run 41\_ Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

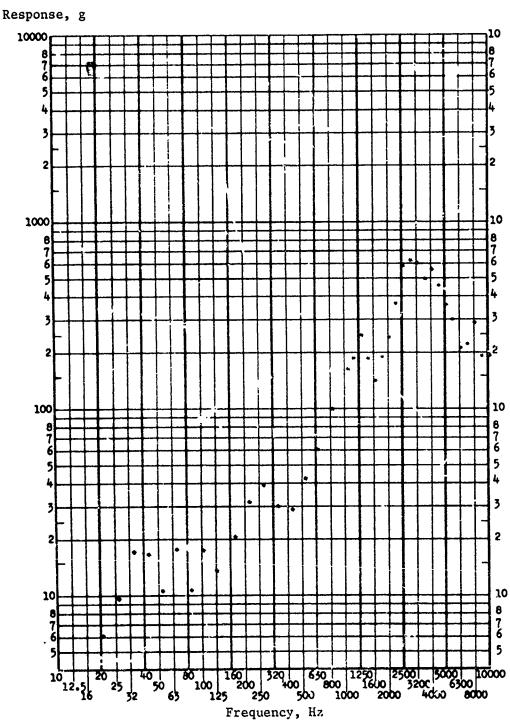
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Figure 41 (cont)



Bench Shock Test - Stage II/III Separation, Run 41\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

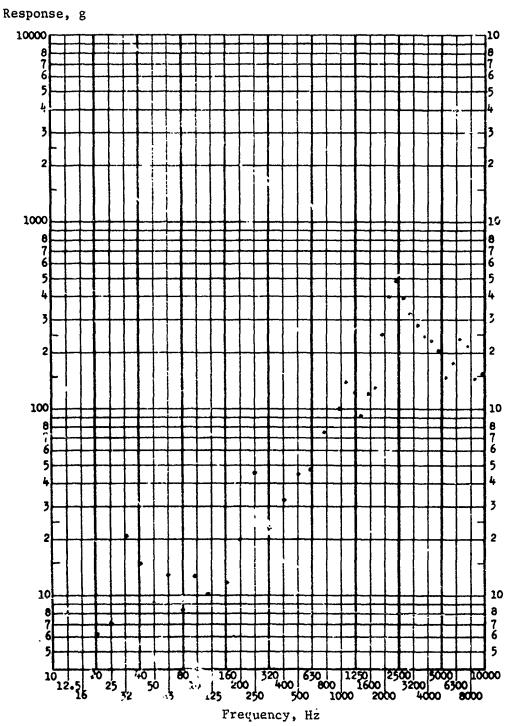
Figure 41 (cont)



Bench Shock Test - Stage II/III Separation, Run 41\_ Measurement No. 13 - Longitudinal axis truss top near longeron attach point

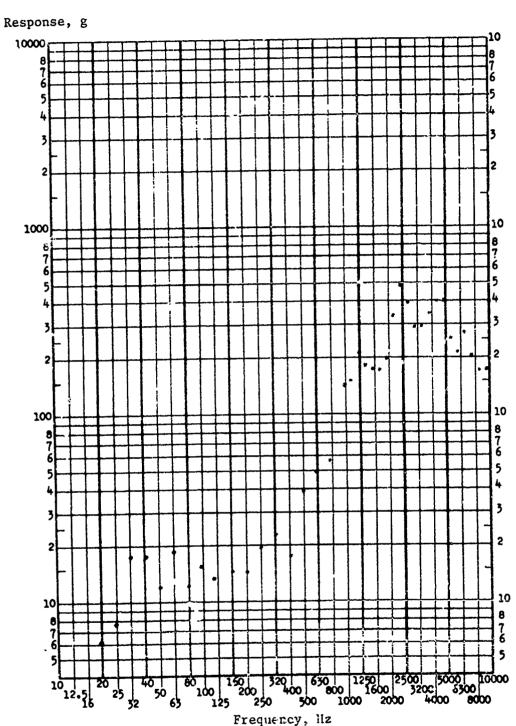
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Figure 41 (cont)



Bench Shock Test - Stage II/III Separation, Run 41\_ Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 41 (cont)

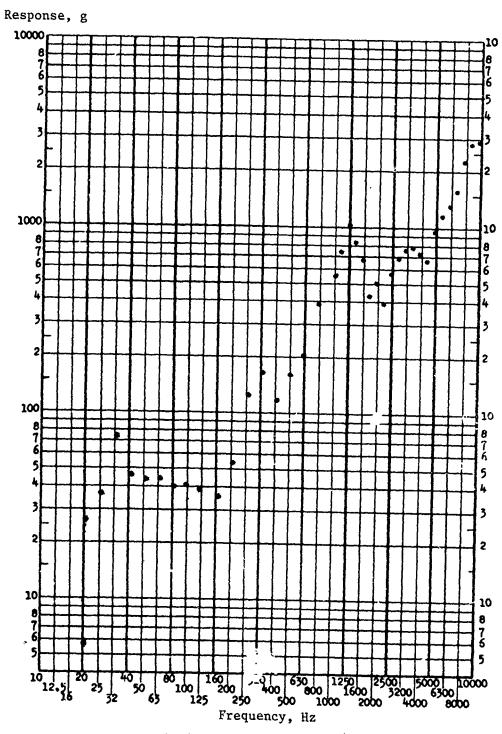


Bench Shock Test - Stage II/III Separation, Run 41 \_\_ Measurement No. 15 - Lateral axis truss ton near longeron attach point

Figure 41 (concl)

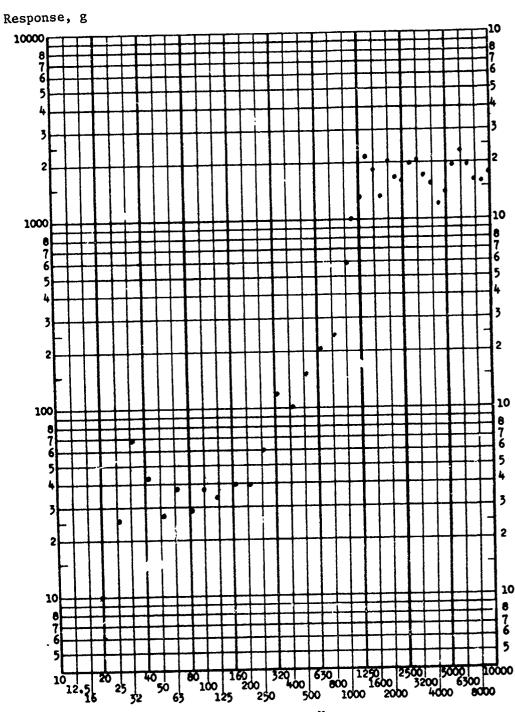
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Bench Shock Test - Stage II/III Separation, Run 42\_ Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 42 Run 42 Shock Response Spectrum



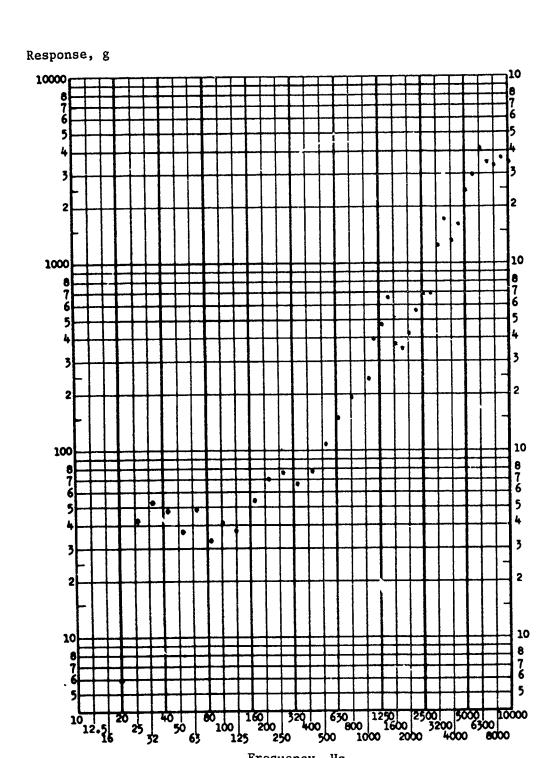
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 42 \_\_

Measurement No. 2 - Tangential axis longeron near

station 133

Figure 42 (cont)



Frequency, Hz

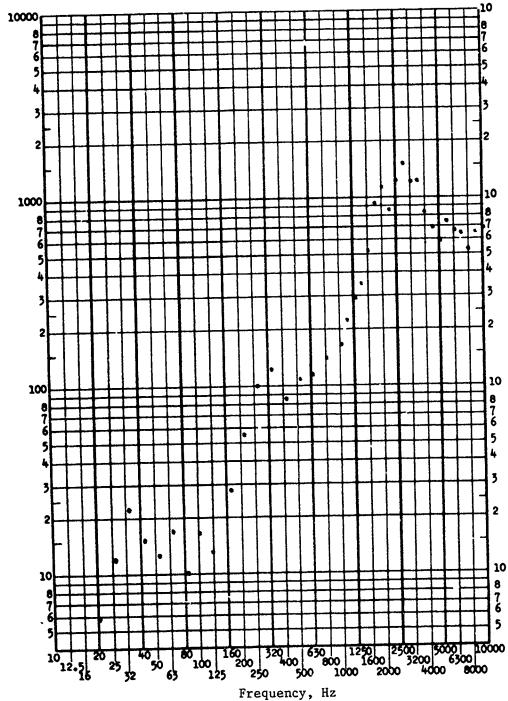
Bench Shock Test - Stage II/III Separation, Run 42 \_\_

Measurement No. 3 - Radial axis longeron near
station 133

AND THE PROPERTY OF THE PROPER

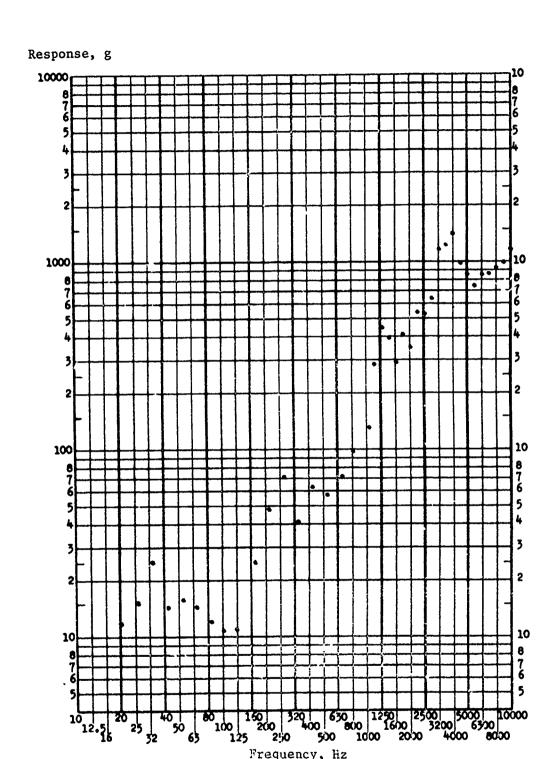
Figure 42 (cont)





Bench Shock Test - Stage II/III Separation, Run 42 \_\_\_ Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 42 (cont)

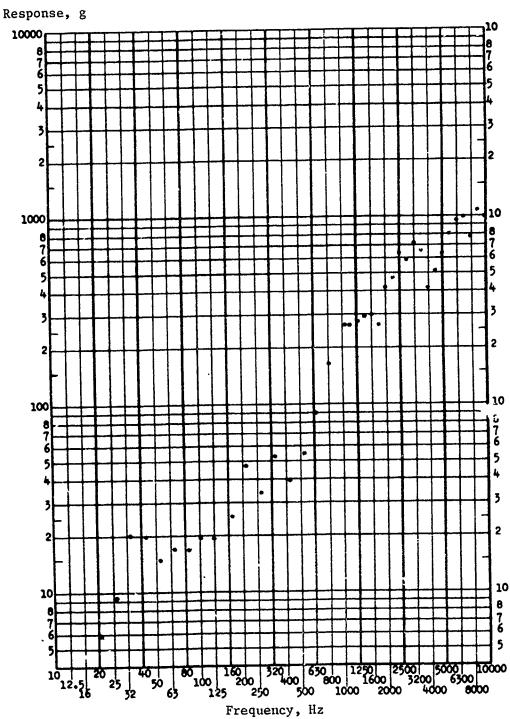


Frequency, Hz Bench Shock Test - Stage II/III Separation, Run 42 \_\_\_ Measurement No. 5 - Tangential axis longeron near station 117

1250 2500 5000 10 1600 3200 6300 00 2000 4000 8000

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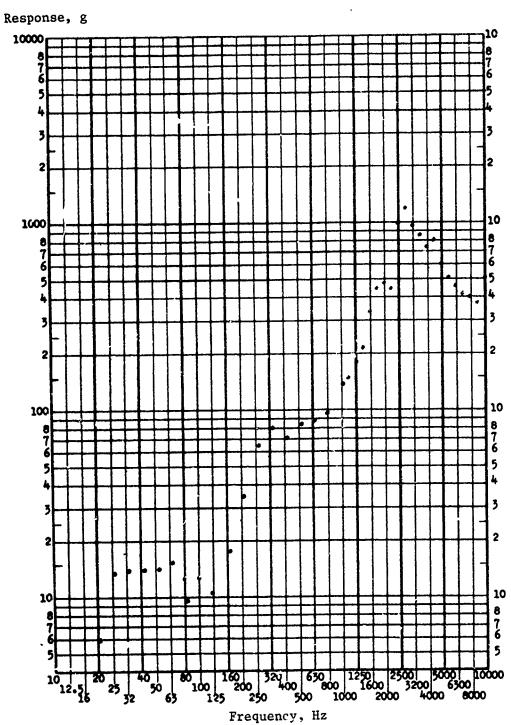
Figure 42 (cont)



Bench Shock Test - Stage II/III Separation, Run 42\_ Measurement No. 6 - Radial axis longeron near station 117

Figure 42 (cont)

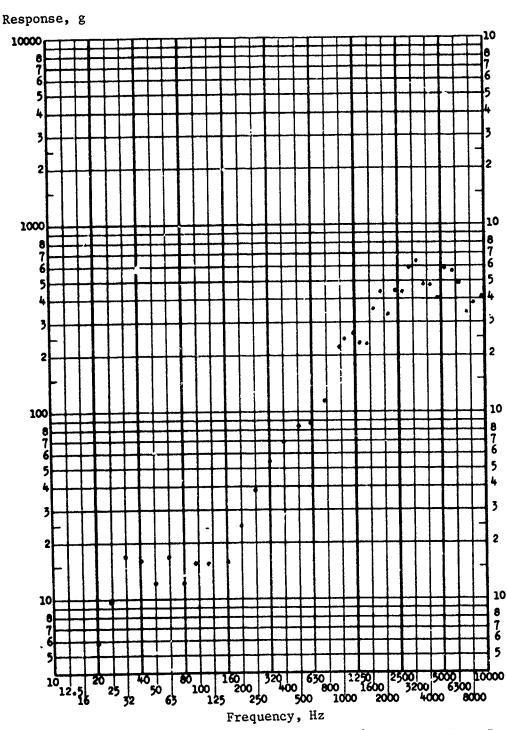
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Bench Shock Test - Stage II/III Separation, Run 42\_ Measurement No. 7 - Longitudinal axis longeron near station 77

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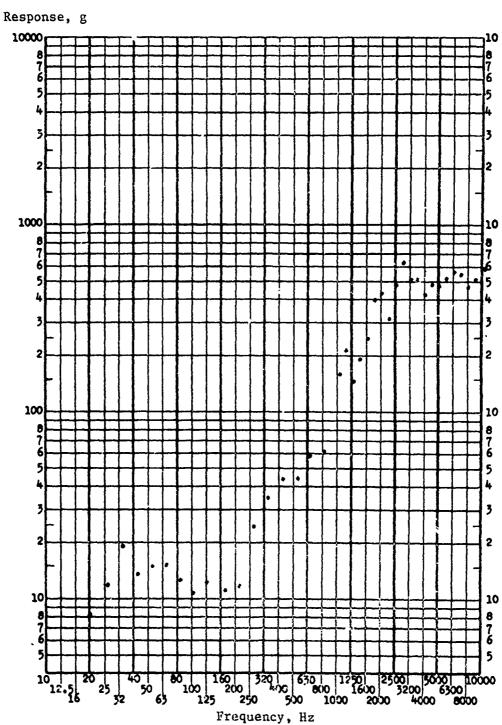
Figure 42 (cont)



Bench Shock Test - Stage II/III Separation, Run 42\_ Measurement No. 8 - Tangential axis longeron near station 77

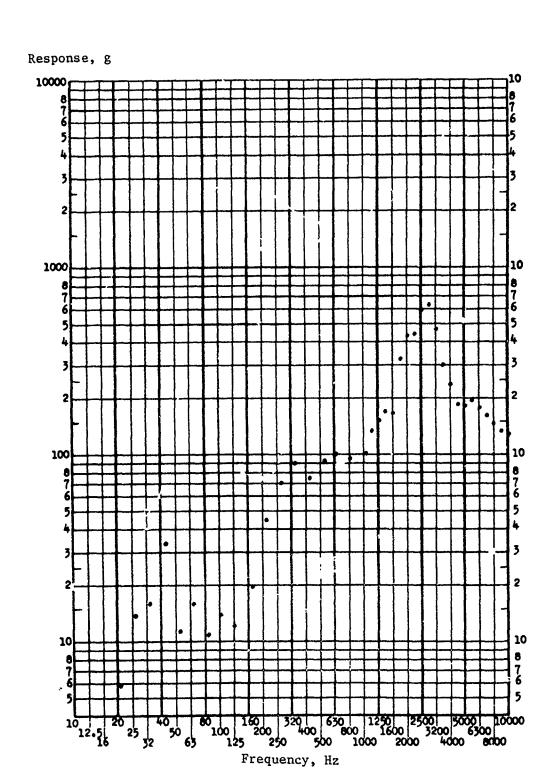
Figure 42 (cont)

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Bench Shock Test - Stage II/III Separation, Run 42 \_\_ Measurement No. 9 - Radial axis longeron near station 77

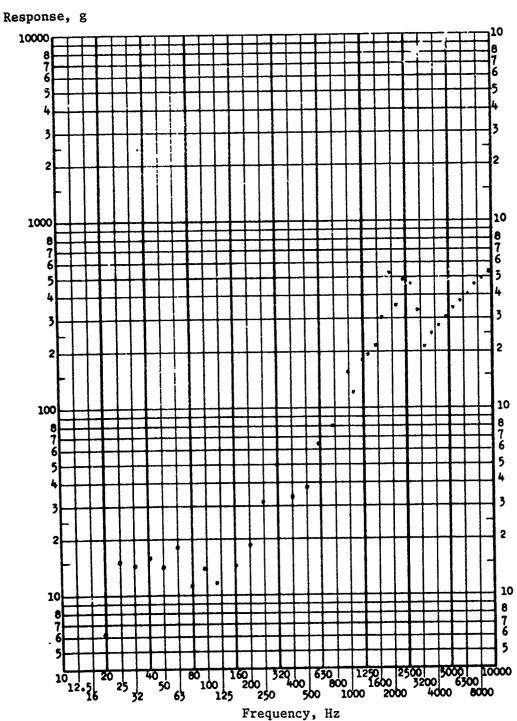
Figure 42 (cont)



Bench Shock Test - Stage II/III Separation, Run 42\_ Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

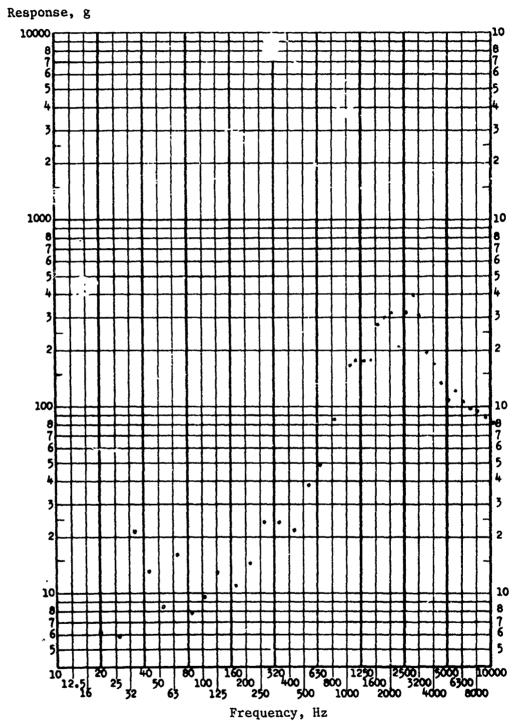
Figure 42 (cont)

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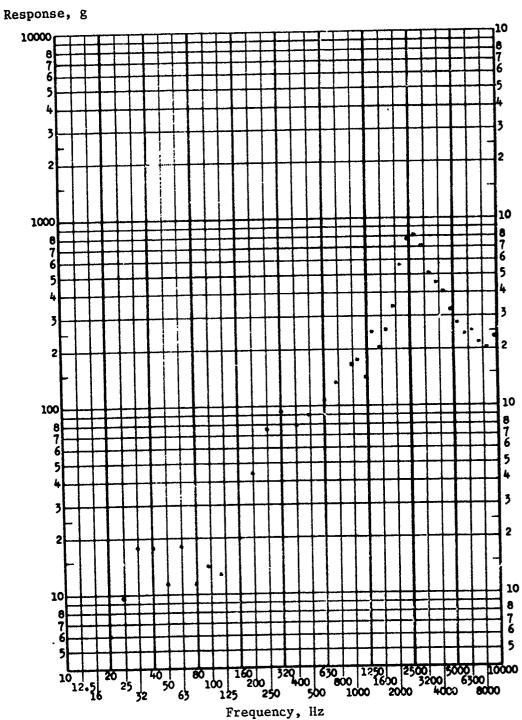
Bench Shock Test - Stage II/III Separation, Run 42\_ Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 42 (cont)



Bench Shock Test - Stage II/III Separation, Run 42\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

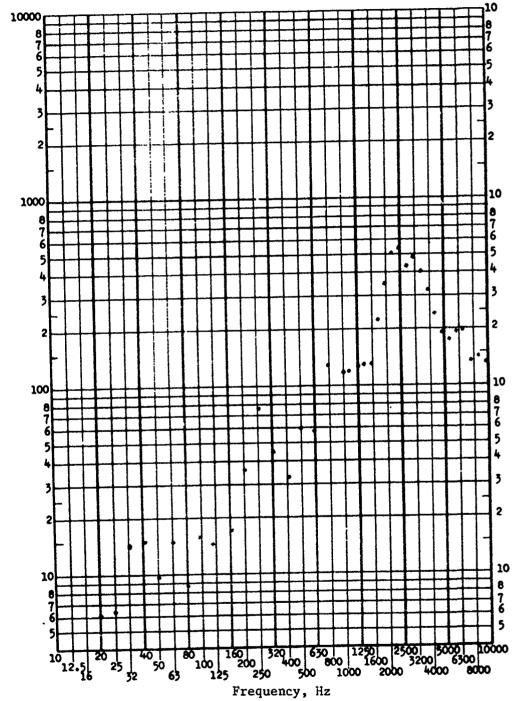
Figure 42 (cont)



Bench Shock Test - Stage II/III Separation, Run 42 \_\_ Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 4? nt)

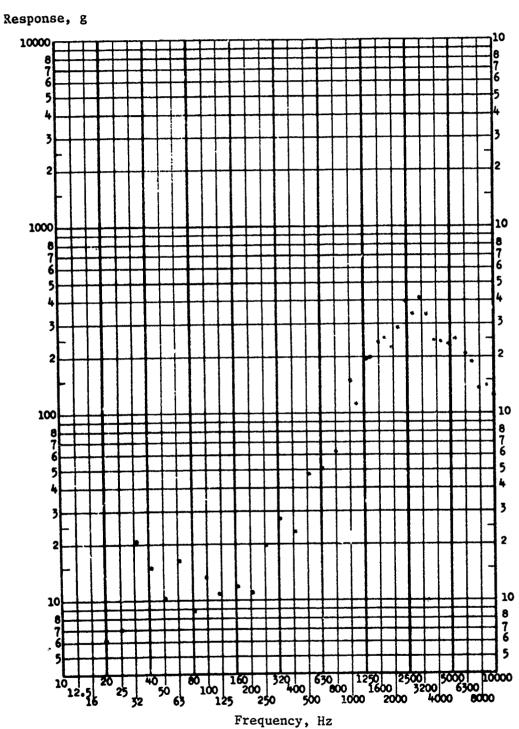




Bench Shock Test - Stage II/III Separation, Run 42\_ Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 42 (cont)

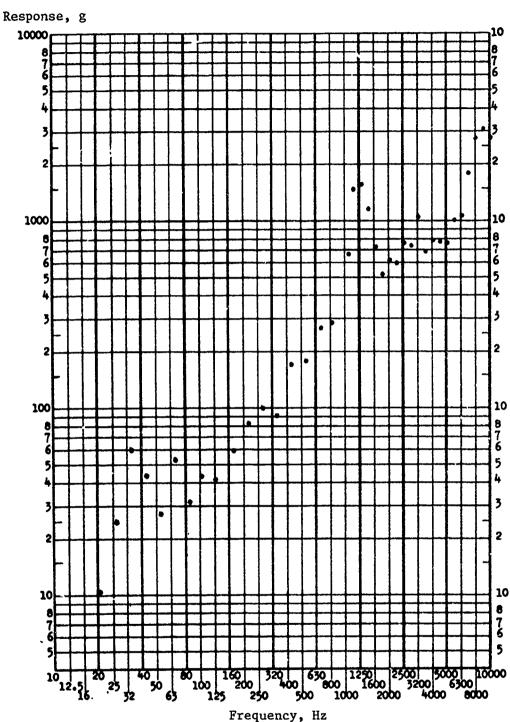
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Bench Shock Test - Stage II/III Separation, Run 42 \_ Measurement No. 15 - Lateral axis truss top near longeron attach point

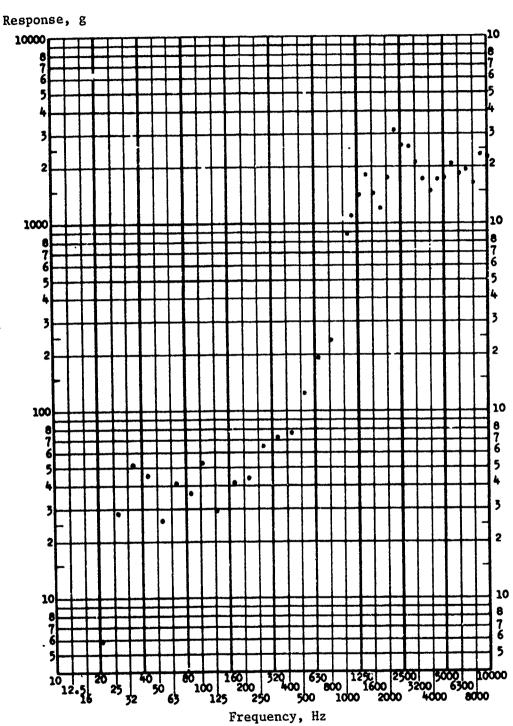
Figure 42 (concl)

The state of the s



Bench Shock Test - Stage II/III Separation, Run 43
Measurement No. 1 - Longitudinal axis longeron
near station 133

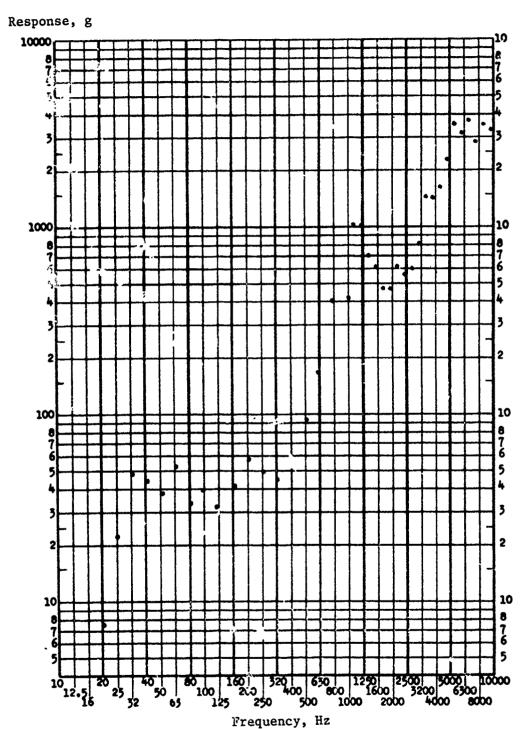
Figure 43 Run 43 Shock Response Spectrum



Bench Shock Test - Stage II/III Separation, Run 43 Measurement No. 2 - Tangential axis longeron near station 133

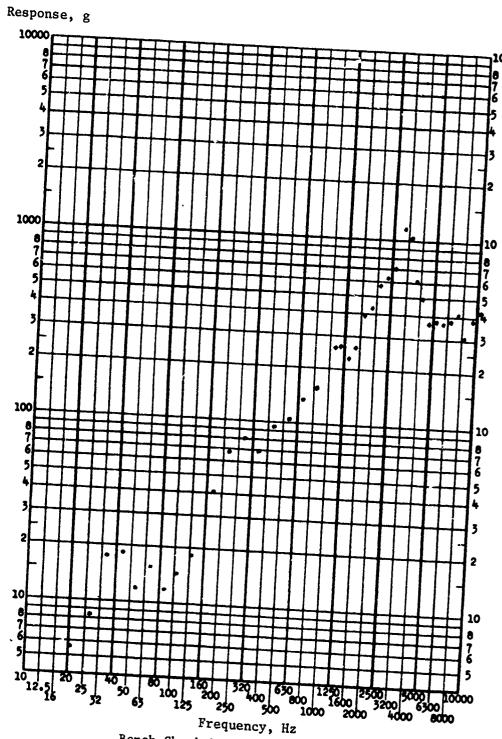
Figure 43 (cont)

nding the contraction of the con



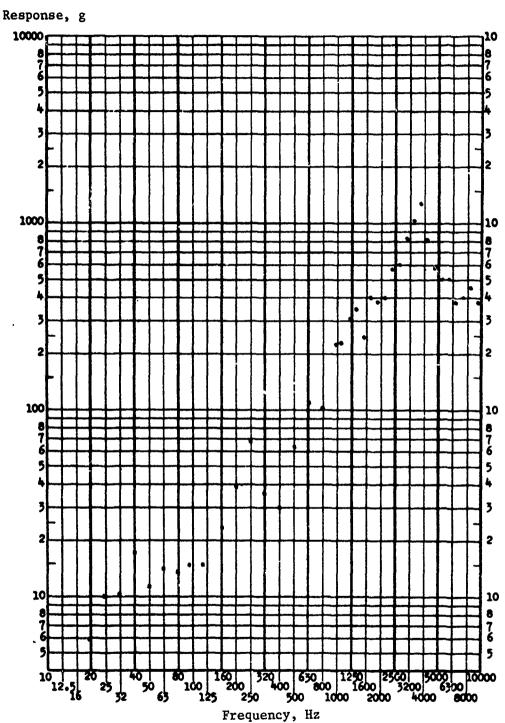
Bench Shock Test - Stage II/III Separation, Run 43 Measurement No. 3 - Radial axis longeron near station 133

Figure 43 (cont)



Bench Shock Test - Stage II/III Separation, Run 43
Measurement No. 4 - Longitudinal axis longeron near
station 117

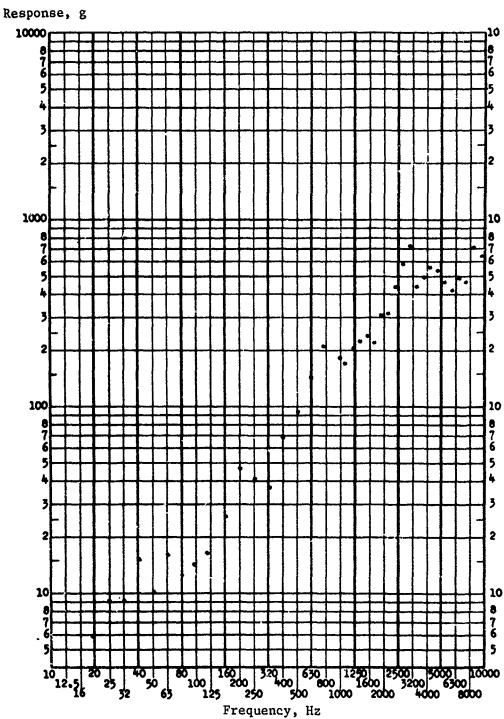
Figure 43 (cont)



Bench Shock Test - Stage II/III Separation, Run 43 Measurement No. 5 - Tangential axis longeron near station 117

ning the contraction of the cont

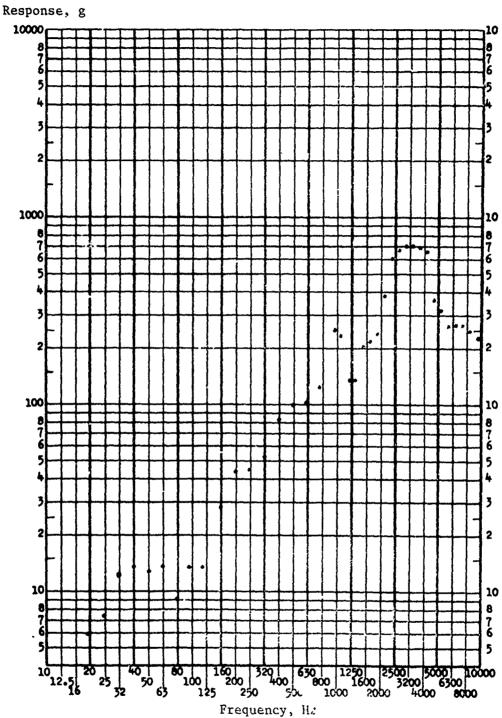
Figure 43 (cont)



Bench Shock Test - Stage II/III Separation, Run 43 Measurement No. 6 - Radial axis longeron near station 117

Figure 43 (cont)

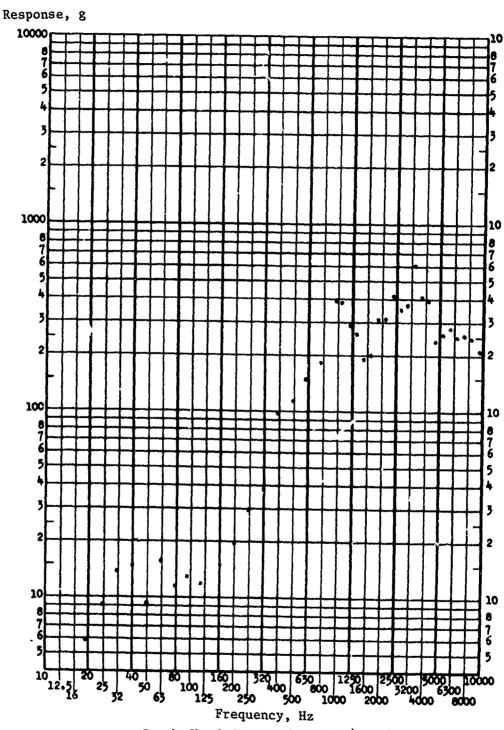
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Bench Shock Test - Stage II/III Separation, Run 43 Measurement No. 7 - Longitudinal axis longeron near station ?7

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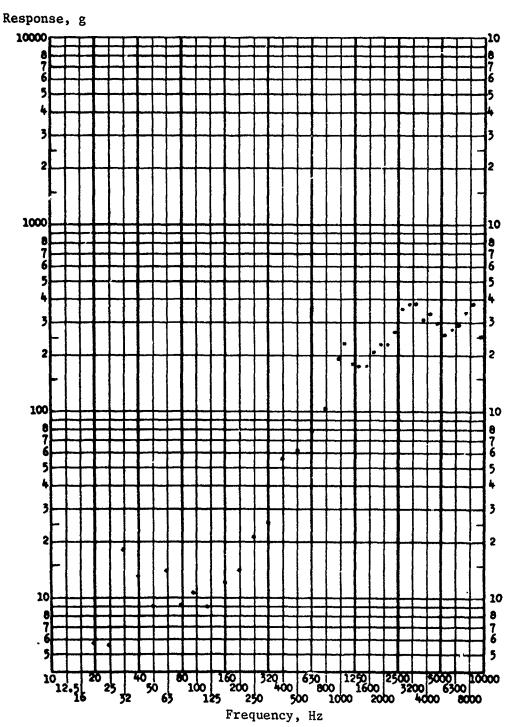
Figure 43 (cont)



Bench Shock Test - Stage II/III Separation, Run 43 Measurement No. 8 - Tangential axis longeron near station 77

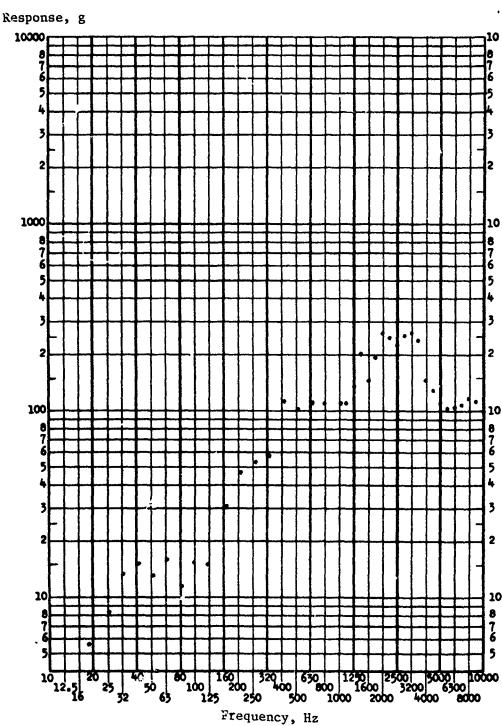
Figure 43 (cont)

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Bench Shock Test - Stage II/III Separation, Run 43 Measurement No. 9 - Radial axis longeron near station 77

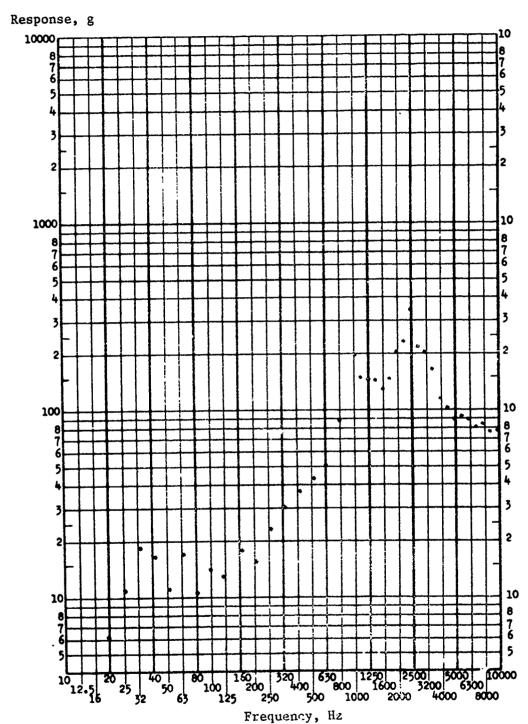
Figure 43 (cont)



Bench Shock Test - Stage II/III Separation, Run 43 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

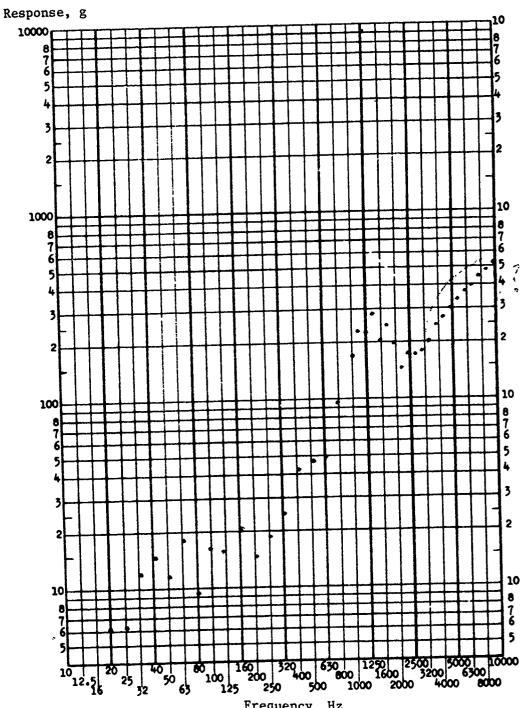
Figure 43 (cont)

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Bench Shock Test - Stage II/III Separation, Run 43 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 43 (cont)



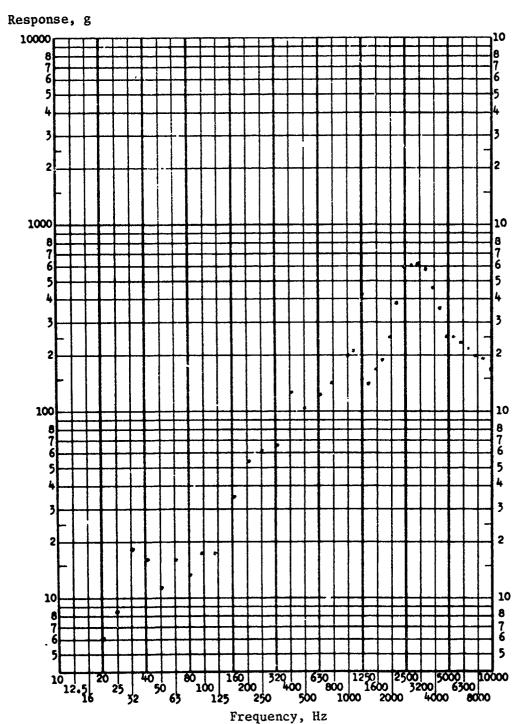
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 43

Measurement No. 12 - Vertical axis truss bottom

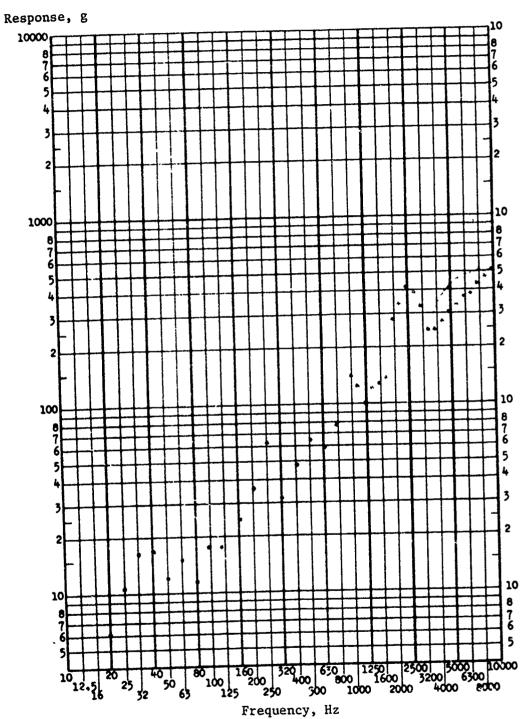
near station 114 attach point

Figure 43 (cont)



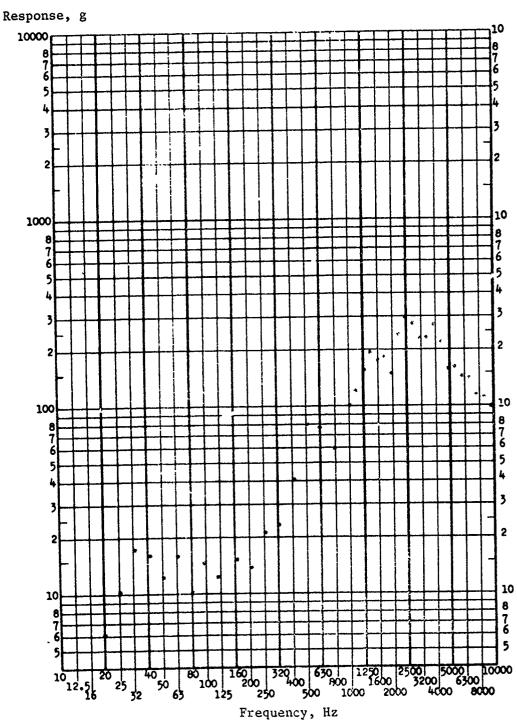
Bench Shock Test - Stage II/III Separation, Run 43 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 43 (cont)



Bench Shock Test - Stage II/III Separation, Run 43 Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 43 (cont)

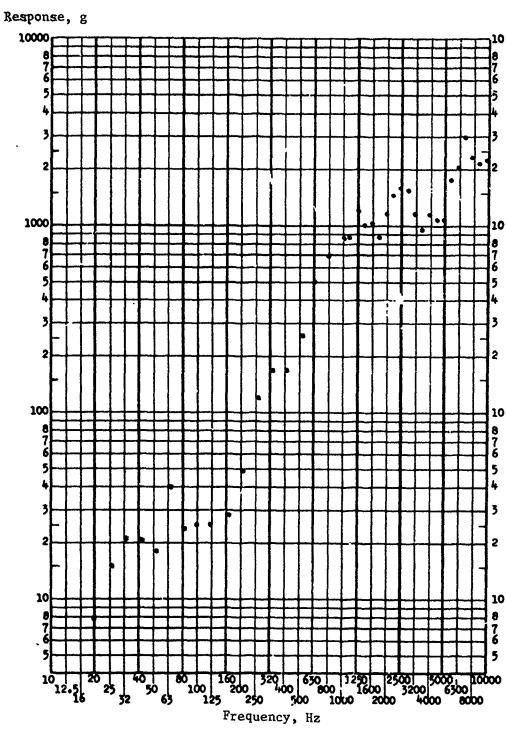


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Bench Shock Test - Stage II/III Separation, Run 43 Measurement No. 15 - Lateral axis truss top near longeron attach point

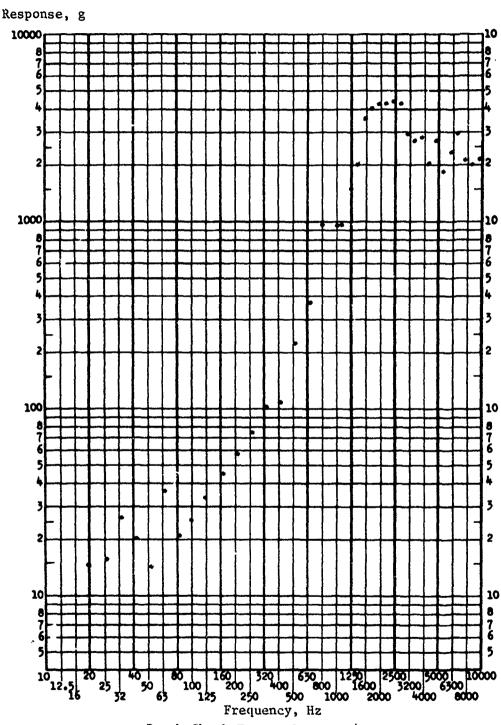
Figure 43 (concl)

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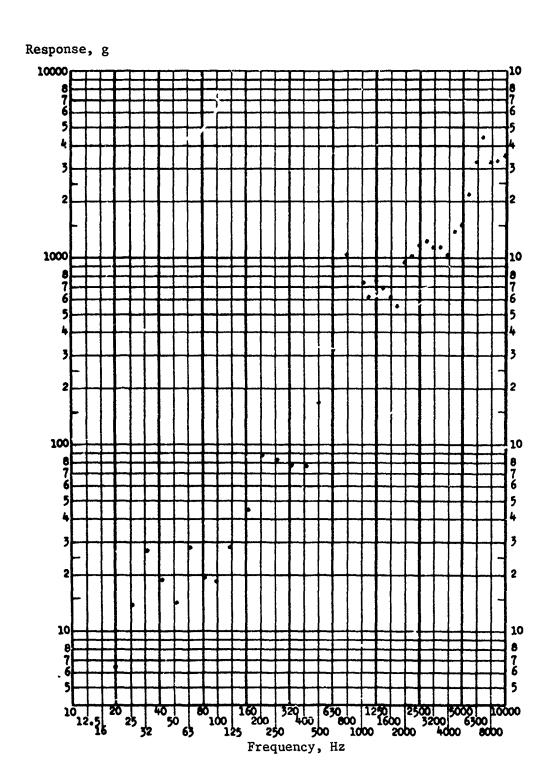
Bench Shock Test - Stage II/III Separation, Run 44 Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 44 Run 44 Shock Response Spectrum



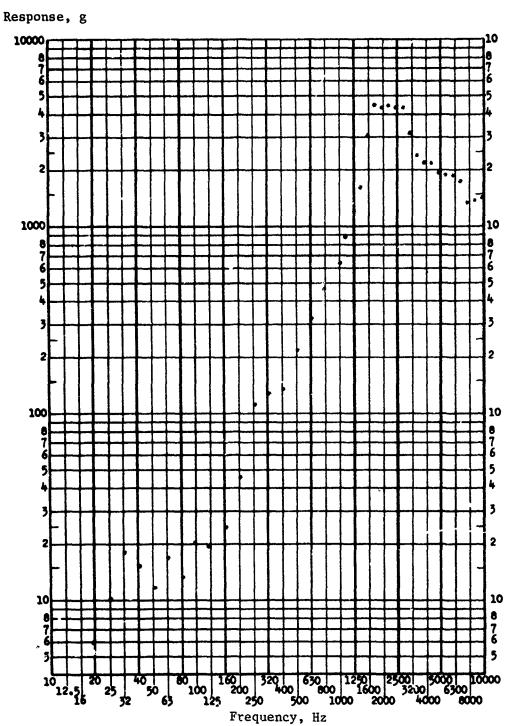
Bench Shock Test - Stage II/III Separation, Run 44 Measurement No. 2 - Tangential axis longeron near station 133

Figure 44 (cont)



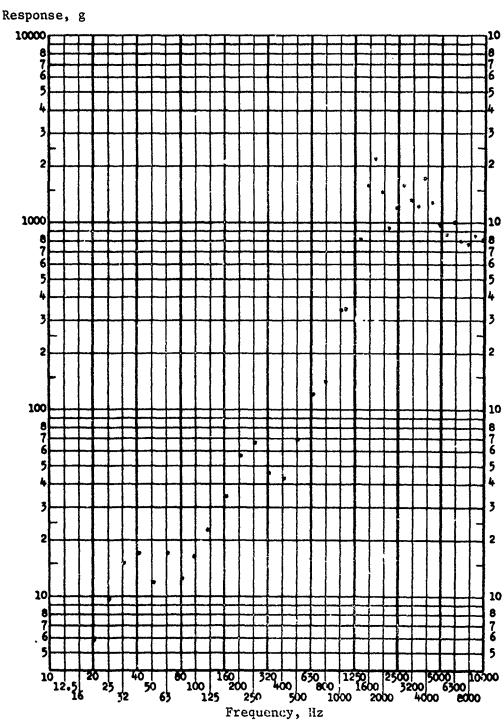
Bench Shock Test - Stage Il/III Separation, Run 44 Measurement No. 3 - Radial axis longeron near station 133

Figure 44 (cont)



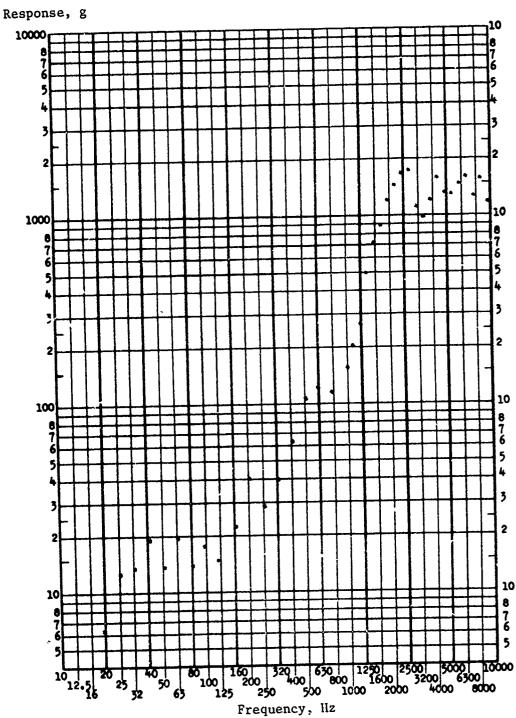
Bench Shock Test - Stage II/III Separation, Run 44 Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 44 (cont)



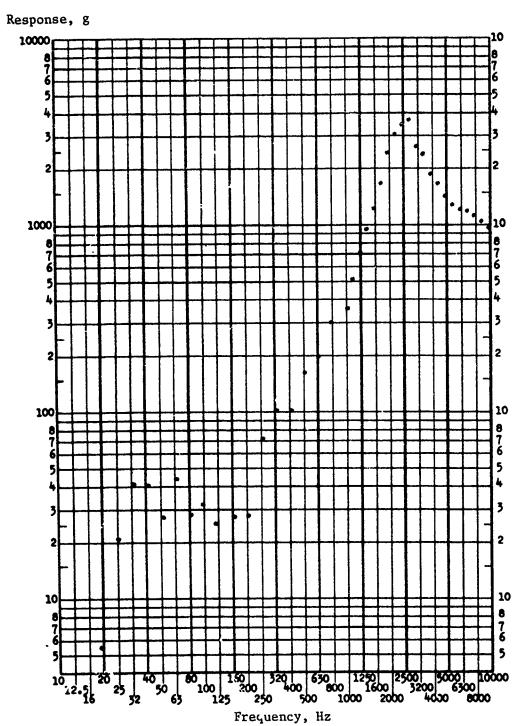
Bench Shock Test - Stage II/III Separation, Run 44 Measurement No. 5 - Tangential axis longeron near station 117

Figure 44 (cont)



Bench Shock Test - Stage II/III Separation, Run 44 Measurement No. 6 - Radial axis longeron near station 117

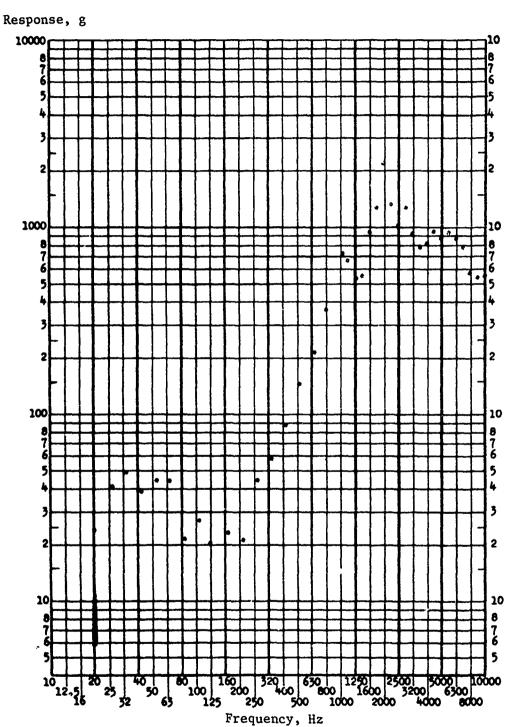
Figure 44 (cont)



Bench Shock Test - Stage II/III Separation, Run 44 Measurement No. 7 - Longitudinal axis longeron near station 77

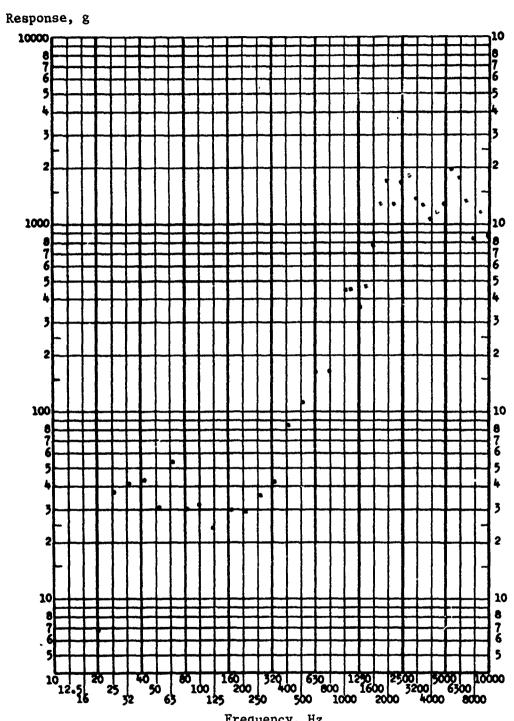
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Figure 44 (cont)



Bench Shock Test - Stage II/III Separation, kun 44 Measurement No. 8 - Tangential axis longeron near station 77

Figure 44 (cont)

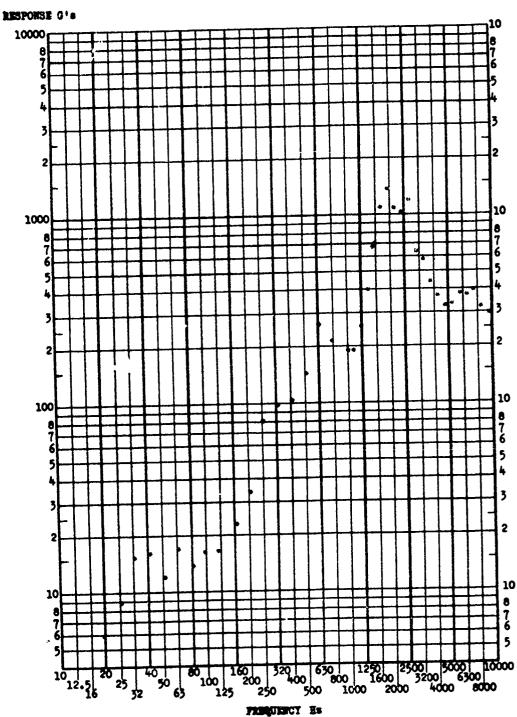


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 44

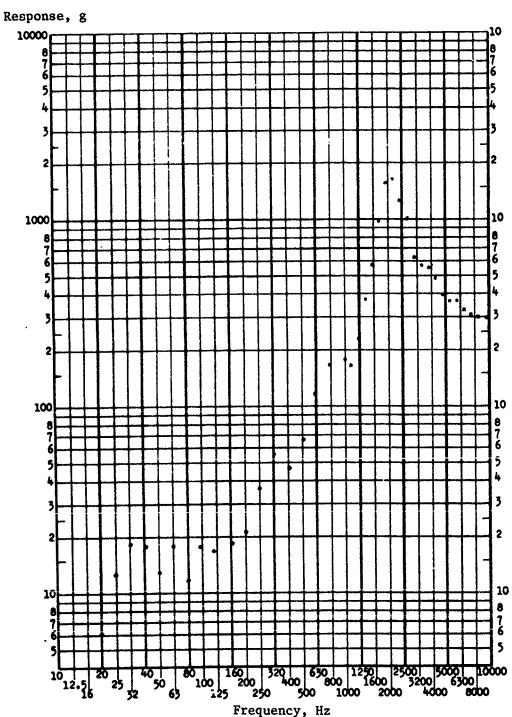
Measurement No. 9 - Radial axis longeron near
station 77

Figure 44 (cont)



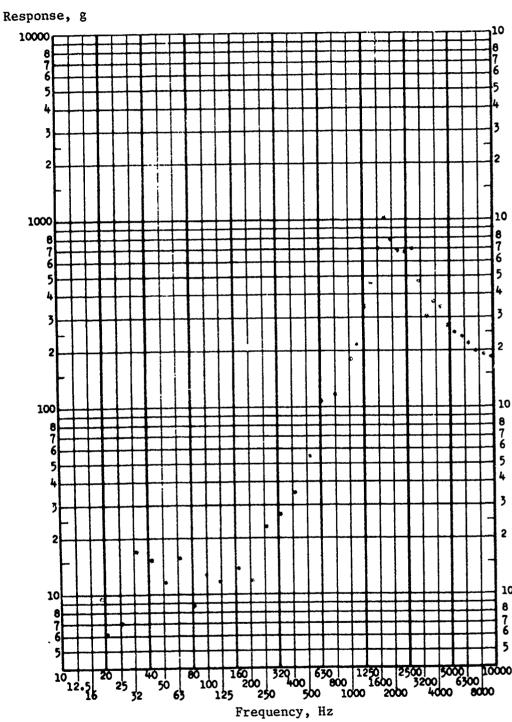
Bench Shock Test - Stage II/III Separation, Run 44 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 44 (cont)



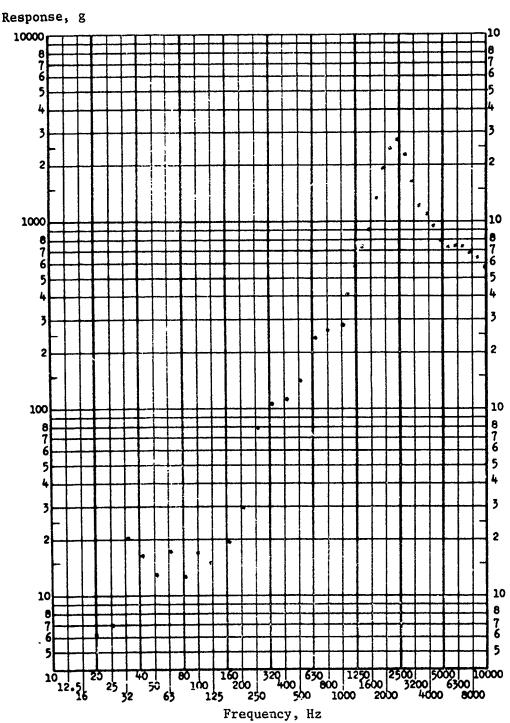
Bench Shock Test - Stage II/III Separation, Run 44
Measurement No. 11 - Lateral axis truss bottom near
station 114 attach point

Figure 44 (cont)



Bench Shock Test - Stage II/III Separation, Run 44 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

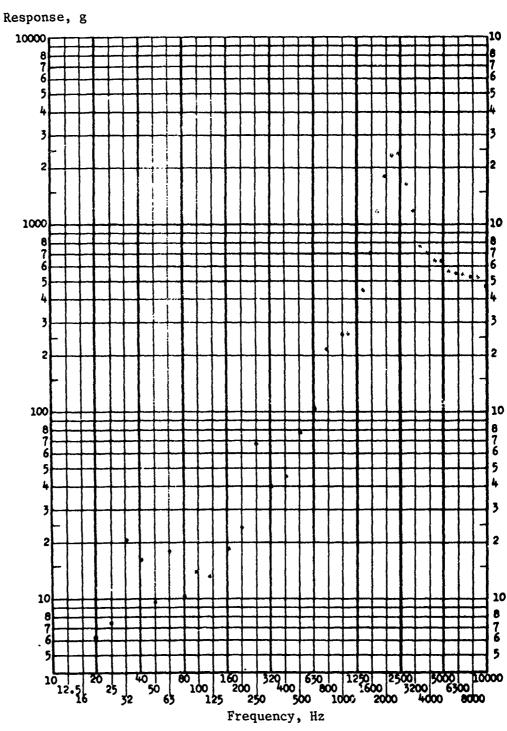
Figure 44 (cont)



Bench Shock Test - Stage II/III Separation, Run 44 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

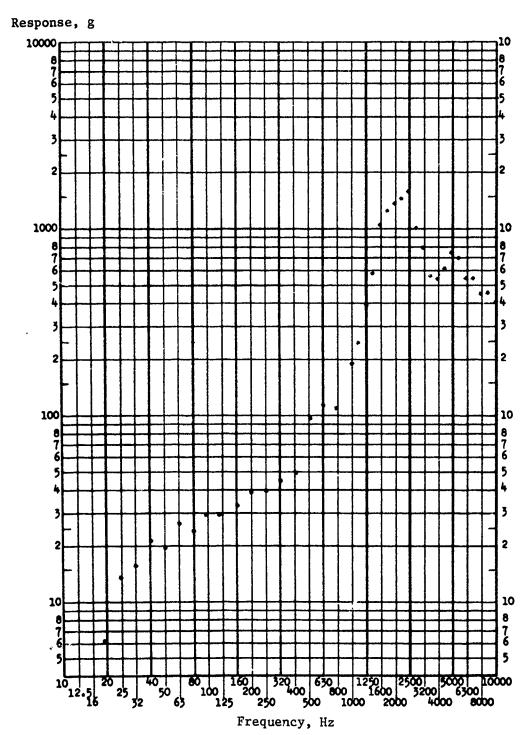
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Figure 44 (cont)



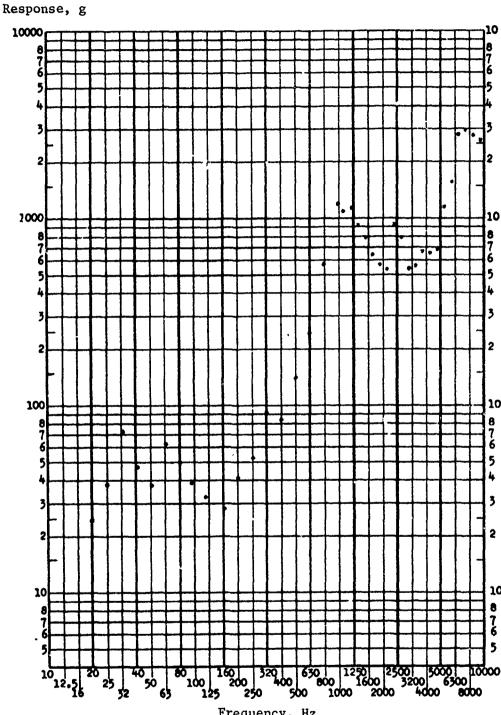
Bench Shock Test - Stage II/III Separation, Run 44 Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 44 (cont)



Bench Shock Test - Stage II/III Separation, Run 44 Measurement No. 15 - Lateral axis truss top near longeron attach point

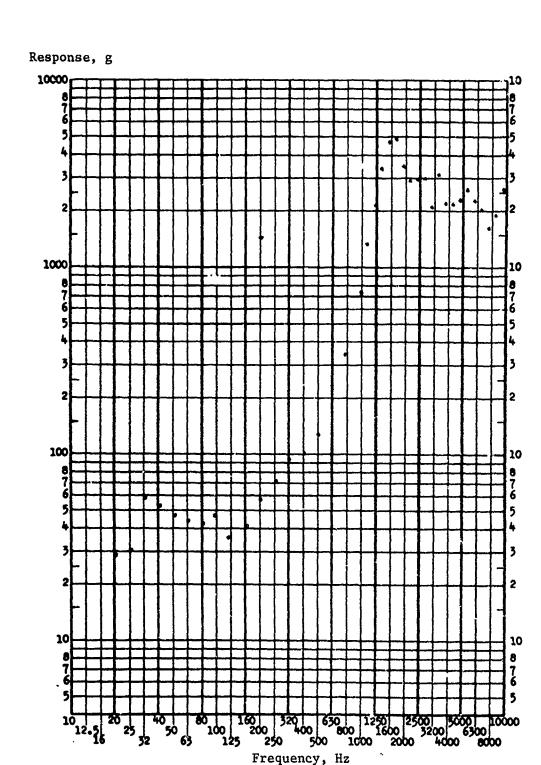
Figure 44 (concl)



Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 45\_
Measurement No. 1 - Longitudinal axis longeron
near station 133

Figure 45 Run 45 Shock Response Spectrum



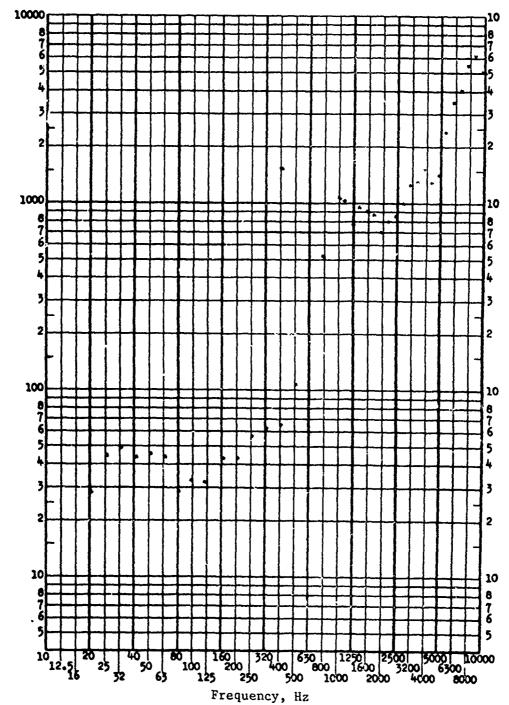
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 45 \_\_
Measurement No. 2 - Tangential axis longeron near station 133

Figure 45 (cont)

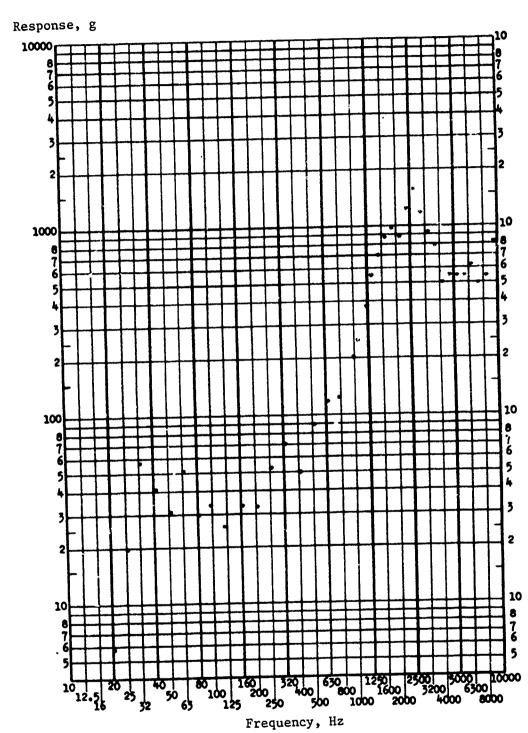
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Bench Shock Test - Stage II/III Separation, Run 45 \_ Measurement No. 3 - Radial axis longeron near station 133

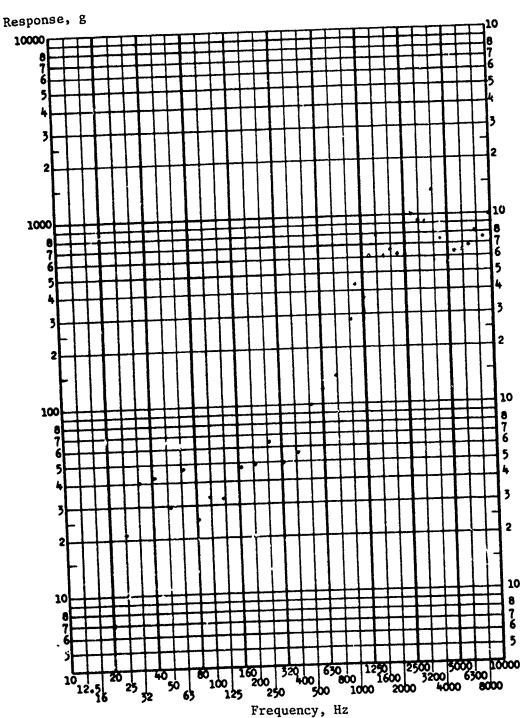
Figure 45 (cont)



Bench Shock Test - Stage II/III Separation, Run 45 \_\_\_\_ Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 45 (cont)

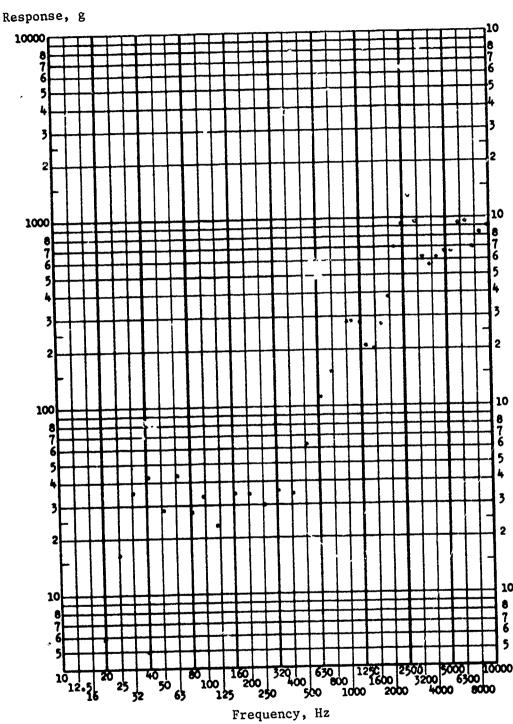
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Bench Shock Test - Stage II/III Separation, Run 45 \_\_\_ Measurement No. 5 - Tangential axis longeron near station 117

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Figure 45 (cont)

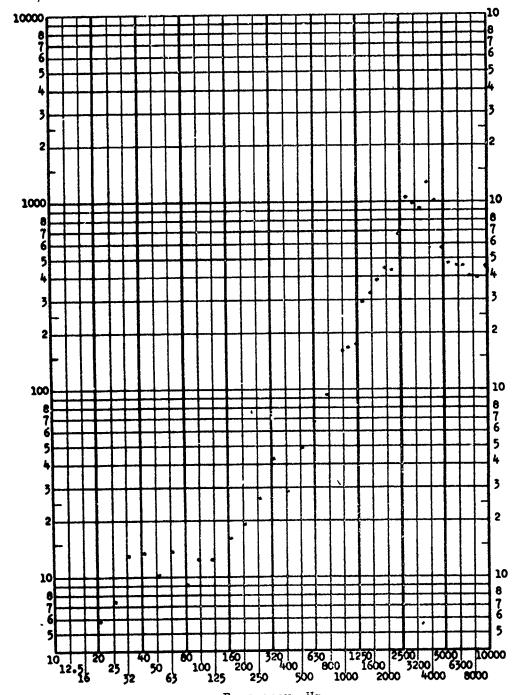


Bench Shock Test - Stage II/III Separation, Run 45 \_\_ Measurement No. 6 - Radial axis longeron near station 117

Figure 45 (cont)

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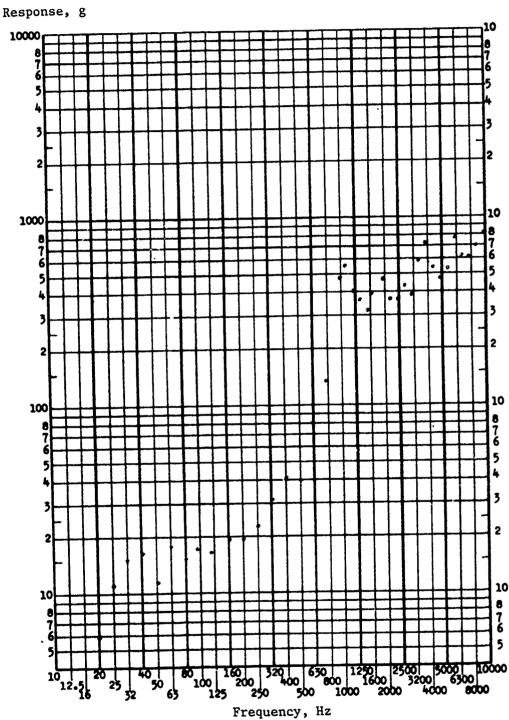




Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 45 \_\_ Measurement No. 7 - Longitudinal axis longeron near station 77 A CONTRACTOR OF THE PROPERTY O

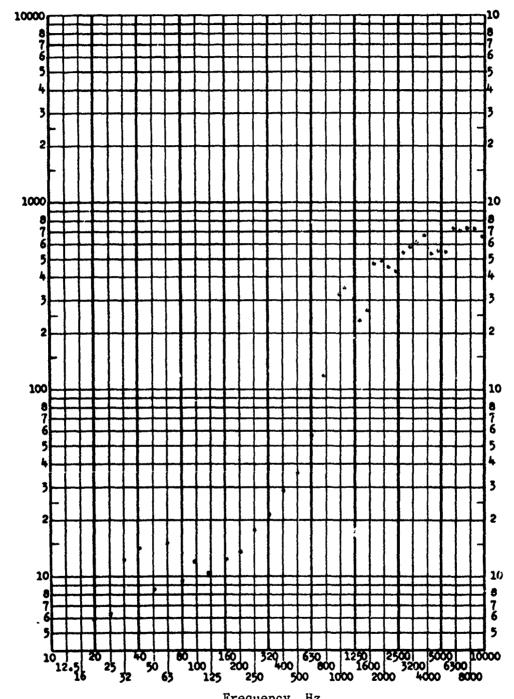
Figure 45 (cont)



Bench Shock Test - Stage II/III Separation, Run 45 \_ Measurement No. 8 - Tangential axis longeron near station 77

Figure 45 (cont)

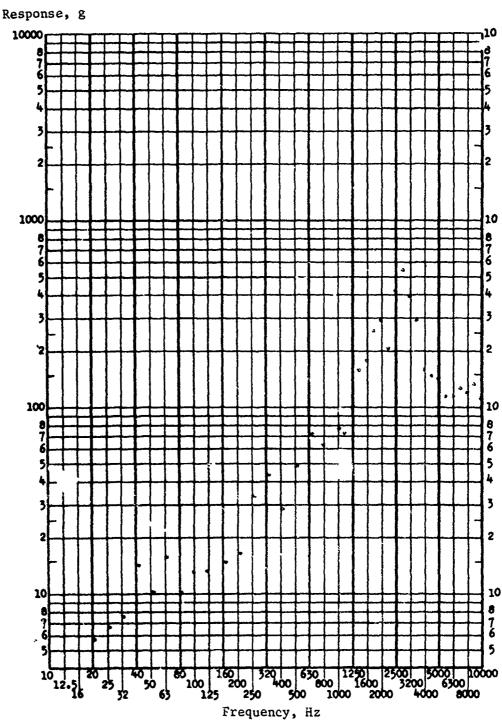




Frequency, Hz

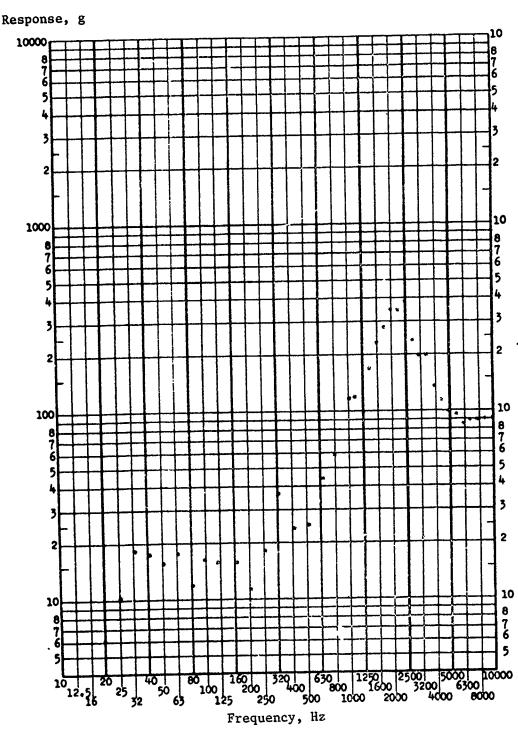
Bench Shock Test - Stage II/III Separation, Run 45\_ Measurement No. 9 - Radial axis longeron near station 77

Figure 45 (cont)



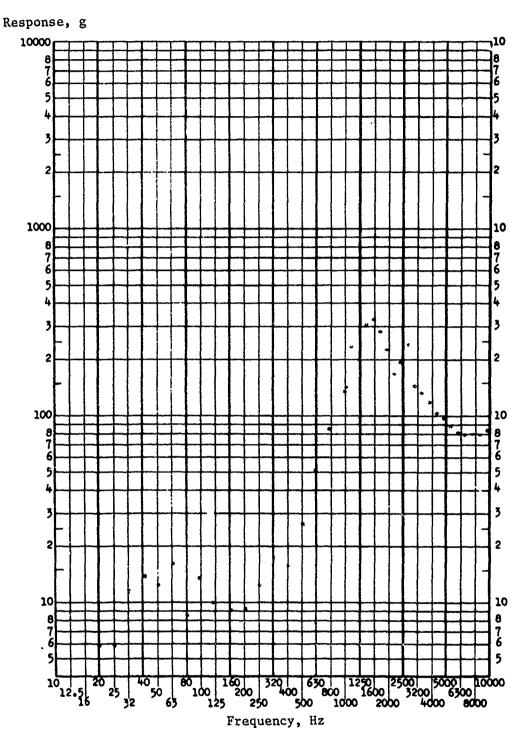
Bench Shock Test - Stage II/III Separation, Run 45 \_\_ Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 45 (cont)



Bench Shock Test - Stage II/III Separation, Run 45\_ Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

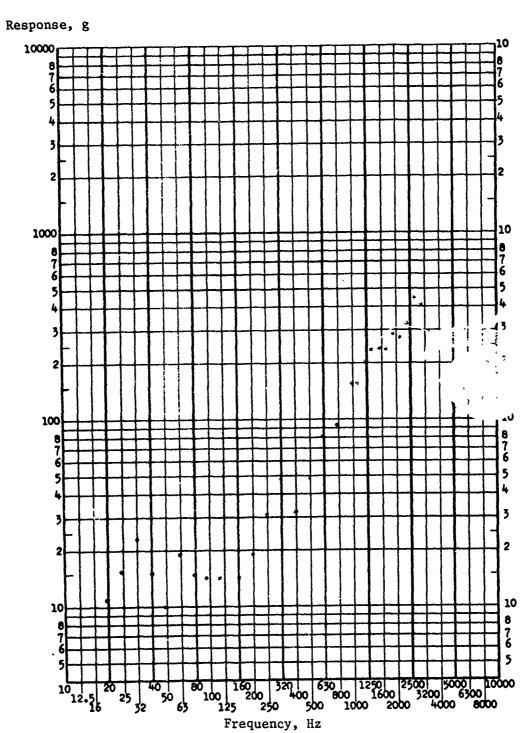
Figure 45 (cont)



Bench Shock Test - Stage II/III Separation, Run 45\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 45 (cont)

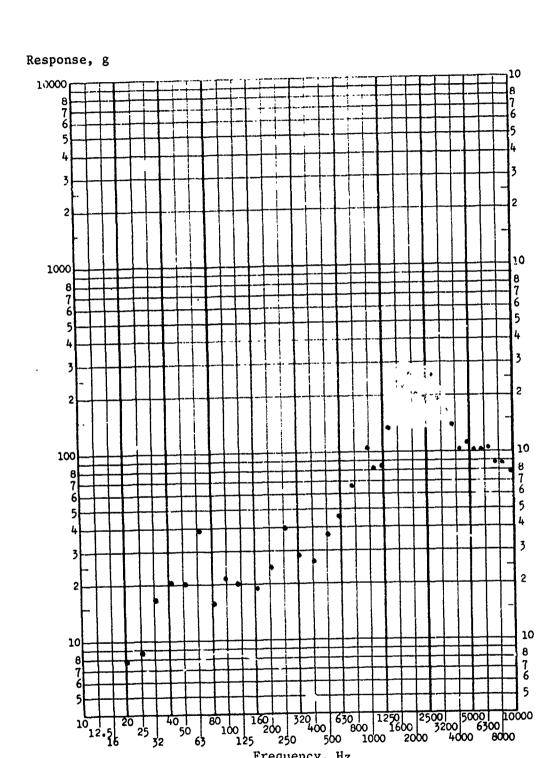
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Bench Shock Test - Stage II/III Separation, Run 45 \_\_ Measurement No. 13 · Longitudinal axis truss top near longeron attach point

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Figure 45 (cont)

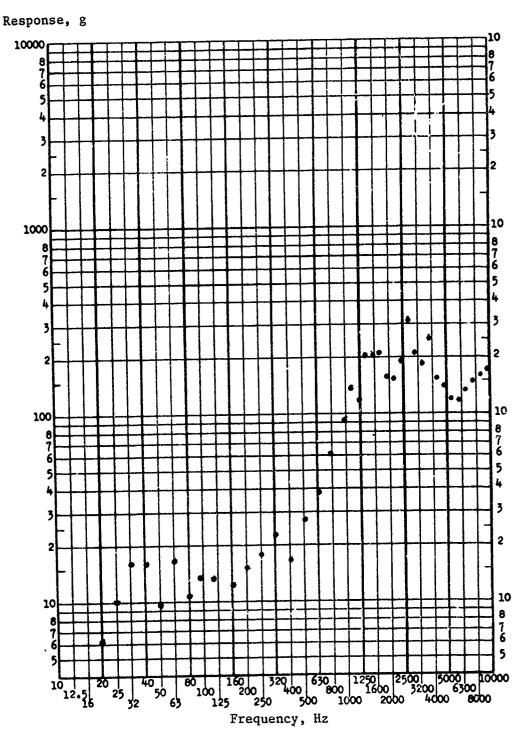


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Bench Shock Test - Stage II/III Separation, Run 45\_ Measurement No. 14 - Lateral axis truss top near longeron attach point

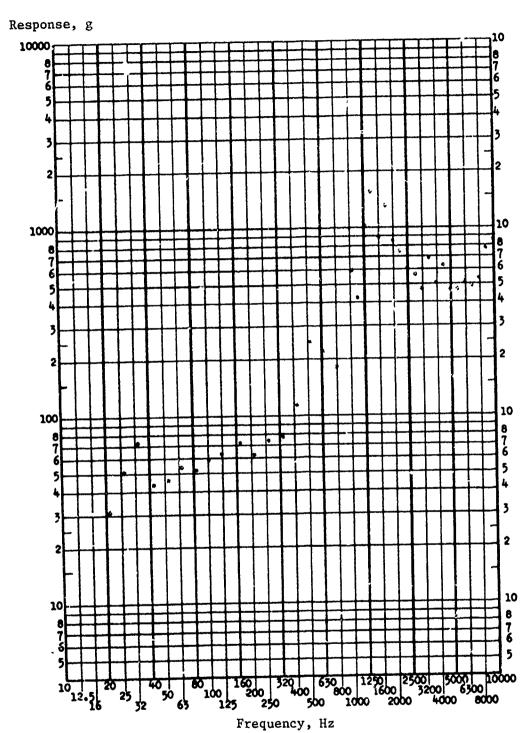
Frequency, Hz

Figure 45 (cont)



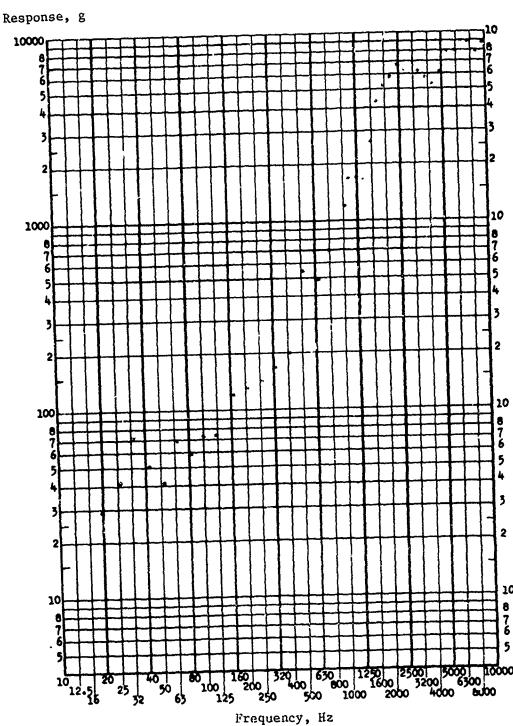
Bench Shock Test - Stage II/III Separation, Run 45\_ Measurement No. 15 - Lateral axis truss top near longeron attach point

Figure 45 (concl)



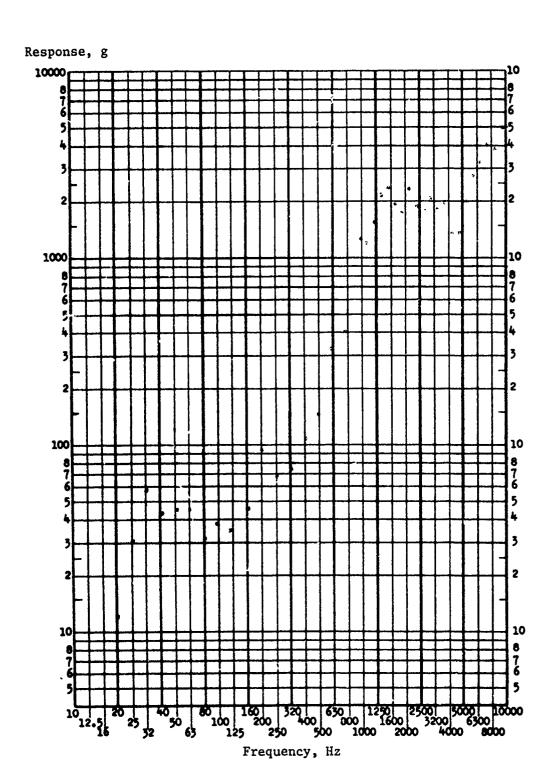
Bench Shock Test - Stage II/III Separation, Run 46 \_ Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 46 Run 46 Shock Response Spectrum



Bench Shock Test - Stage II/III Separation, Run 46 \_ Measurement No. 2 - Tangential axis longeron near station 133

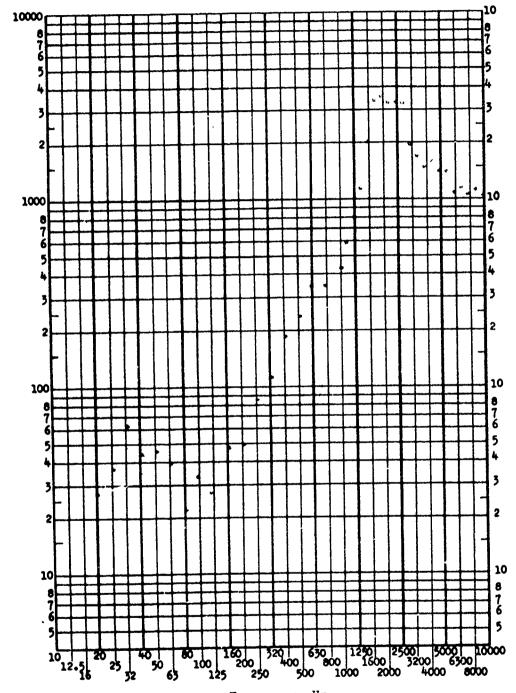
Figure 46 (cont)



Bench Shock Test - Stage II/III Separation, Run 46 \_ Measurement No. 3 - Radial axis longeron near station 133

Figure 46 (cont)



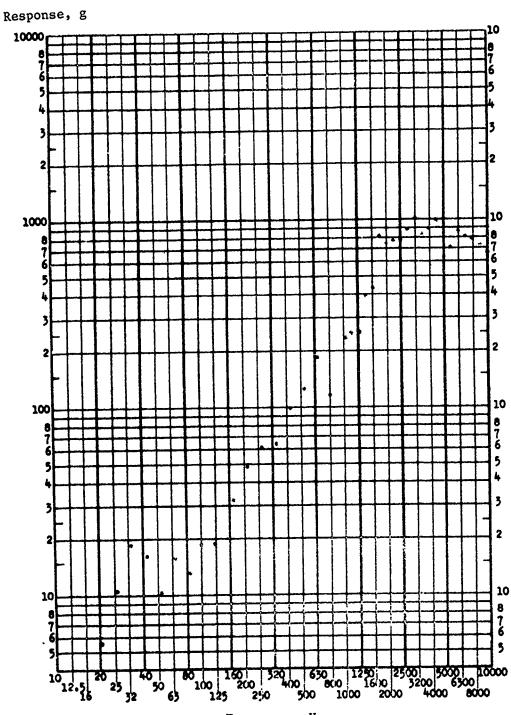


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 46 \_\_ Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 46 (cont)

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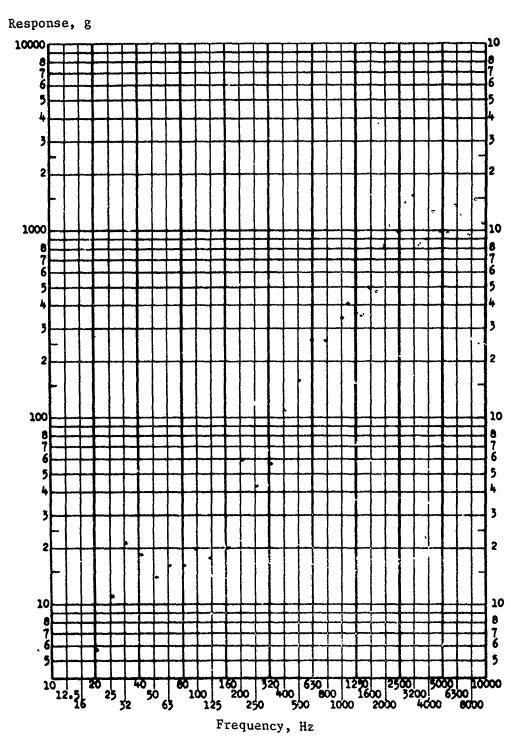


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 46 \_
Measurement No. 5 - Tangential axis longeron near
station 117

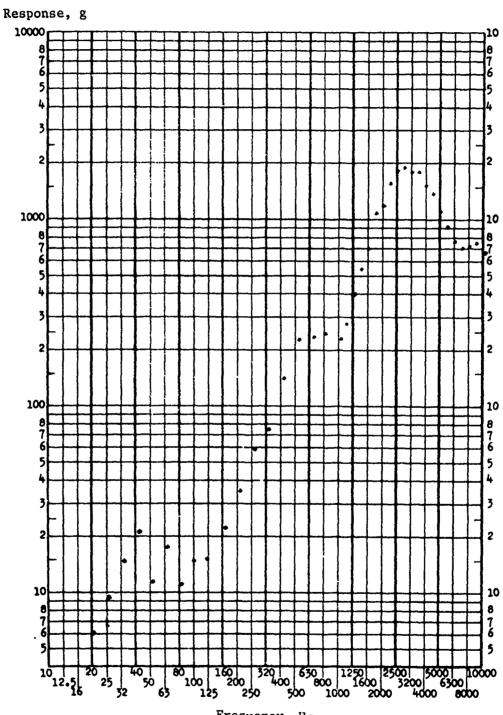
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Figure 46 (conv)



Bench Shock Test - Stage II/III Separation, Run 46 \_\_ Measurement No. 6 - Radial axis longeron near station 117

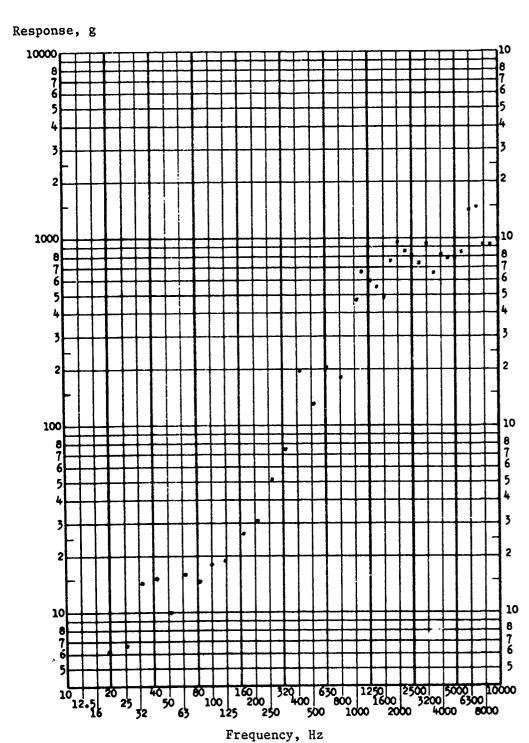
Figure 46 (cont)



Frequency, Hz

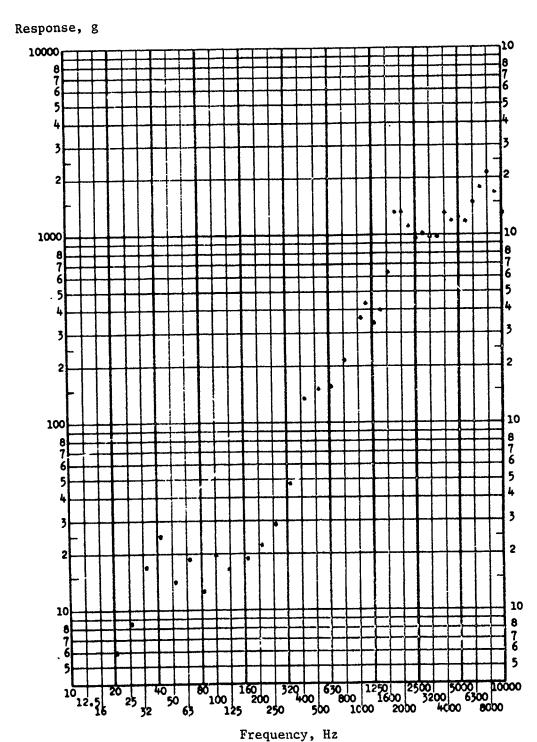
Bench Shock Test - Stage II/III Separation, Run 46\_ Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 46 (cont)



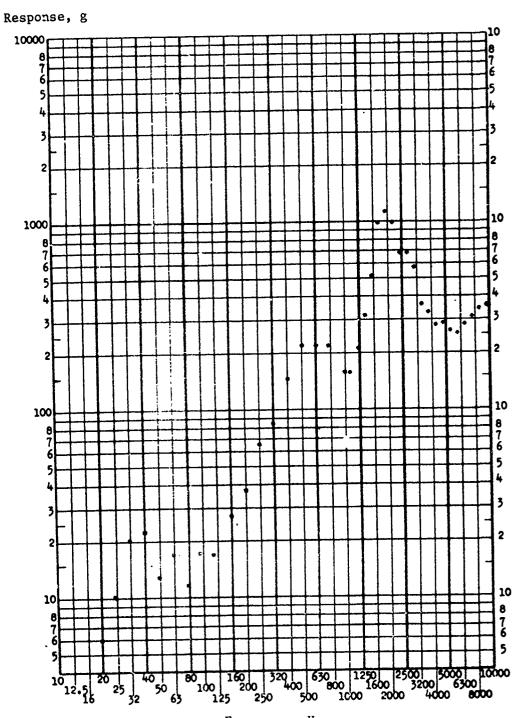
Bench Shock Test - Stage II/III Separation, Run 46 \_\_ Measurement No. 8 - Tangential axis longeron near station 77

Figure 46 (cont)



Bench Shock Test - Stage II/III Separation, Run 46 \_\_ Measurement No. 9 - Radial axis longeron near station 77

Figure 46 (cont)

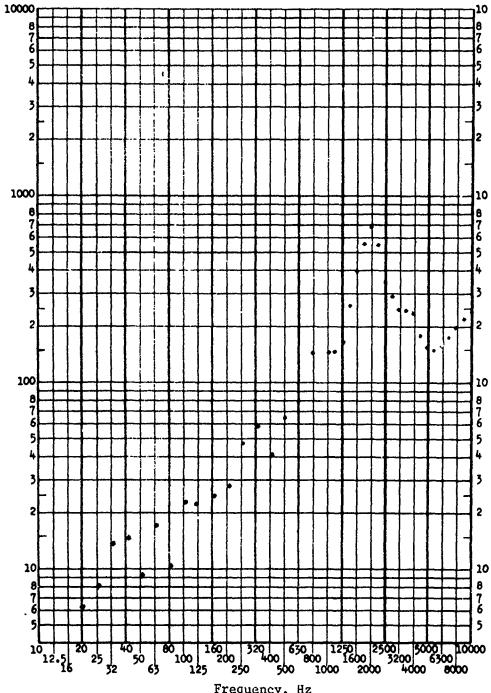


Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 46 \_
Measurement No. 10 - Longitudinal axis truss bottom
near station 114 attach point

Figure 46 (cont)

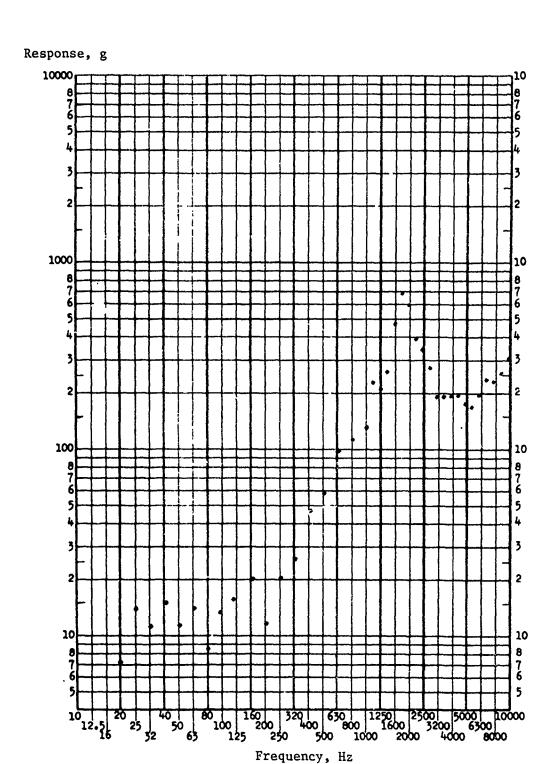




Frequency, Hz

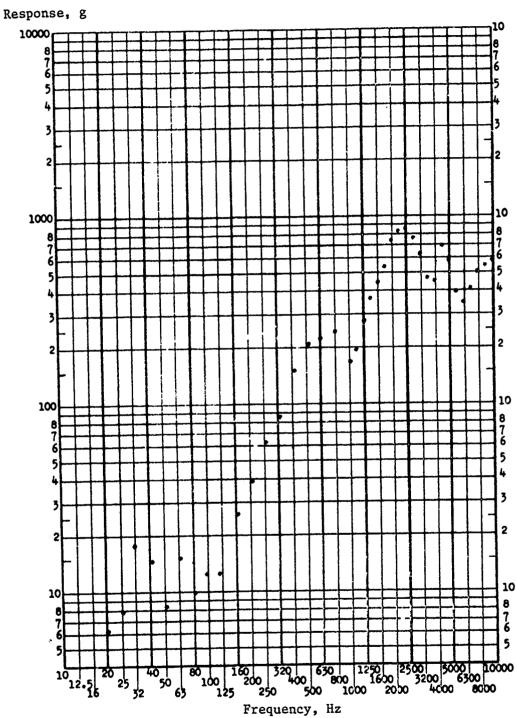
Bench Shock Test - Stage II/III Separation, Run 46 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 46 (cont)



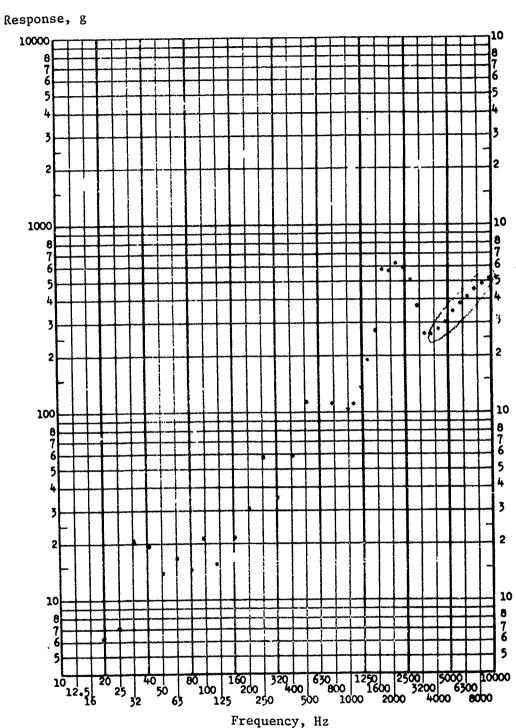
Bench Shock Test - Stage II/III Separation, Run 46 \_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 46 (cont)



Bench Shock Test - Stage II/III Separation, Run 46 \_ Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 46 (cont)

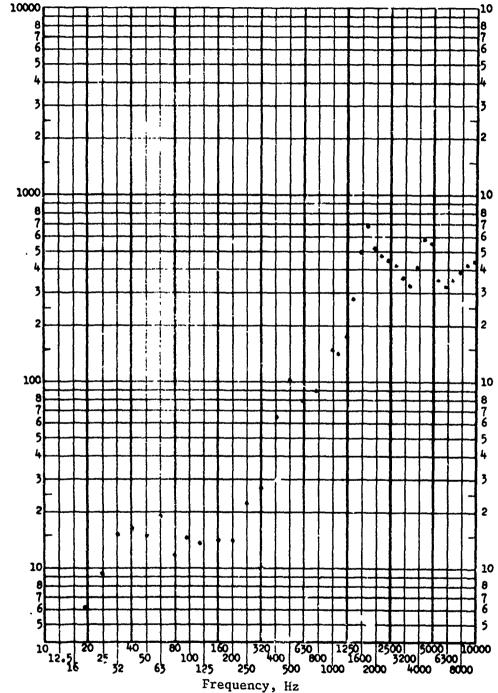


Bench Shock Test - Stage II/III Separation, Run 46 \_\_\_\_ Measurement No. 14 - Lateral axis truss top near longeron attach point.

Figure 46 (cont)

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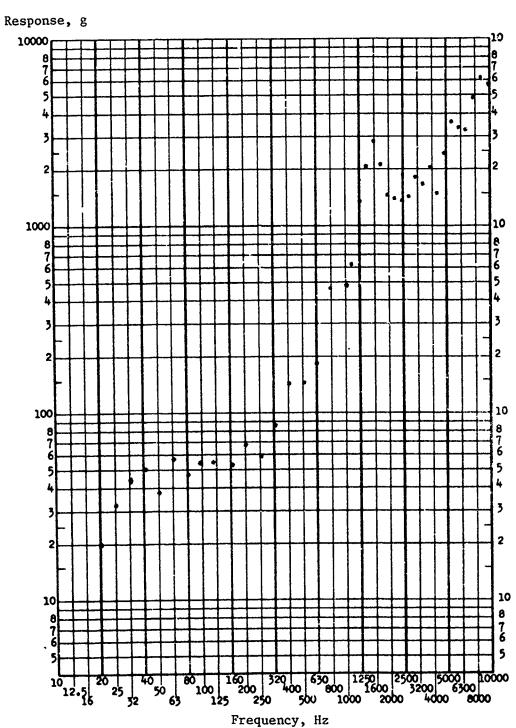


Bench Shock Test - Stage II/III Separation, Run 46\_ Measurement No. 15 - Lateral axis truss top near longeron attach point

Figure 46 (concl)

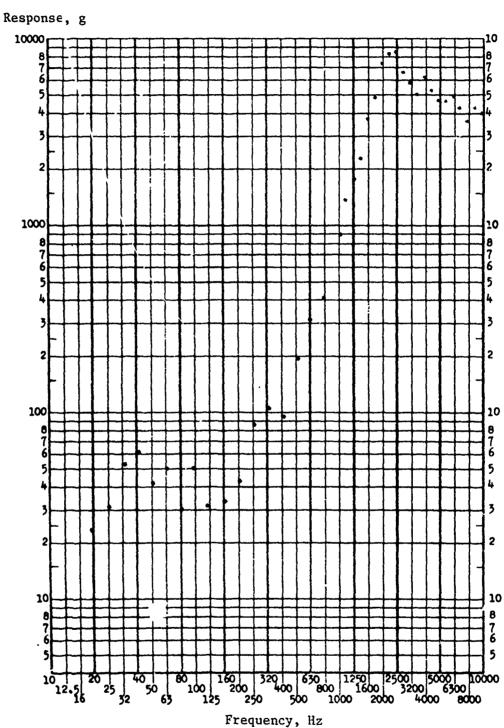
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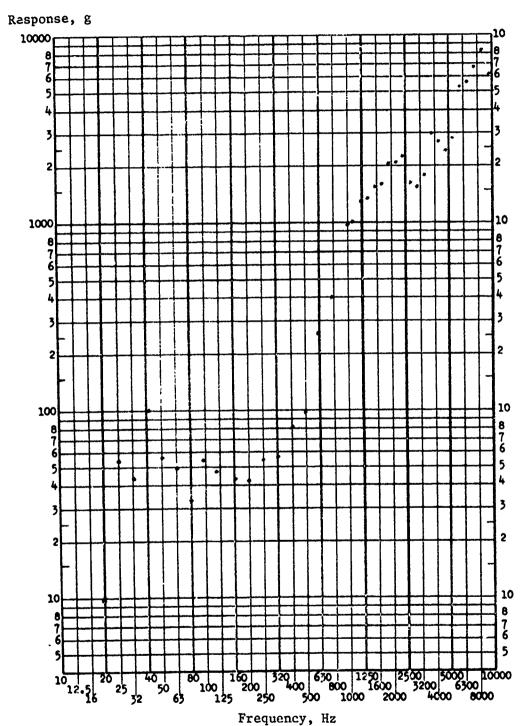
Bench Shock Test - Scage II/III Separation, Run 47 Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 47 Fun 47 Shock Response Spectrum



Bench Shock Test - Stage II/III Separation, Run 47 Measurement No. 2 - Tangential axis longeron near station 133

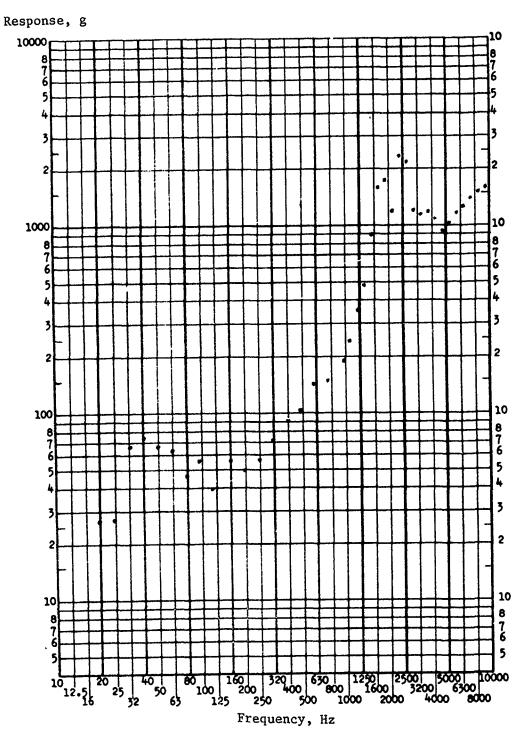
Figure 47 (cont)



Bench Shock Test - Stage II/III Separation, Run 47 Measurement No. 3 - Radial axis longeron near station 133

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Figure 47 (cont)



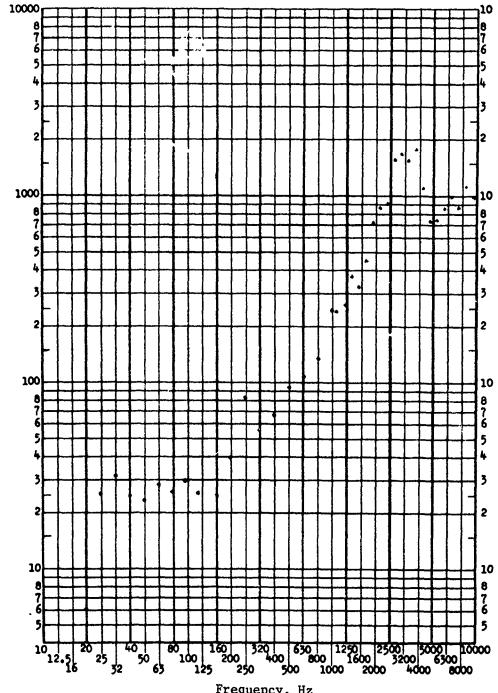
Bench Shock Test - Stage II/III Separation, Run 47 Measurement No. 4 - Longitudinal axis longeron near station 117

Figure 4? (cont)

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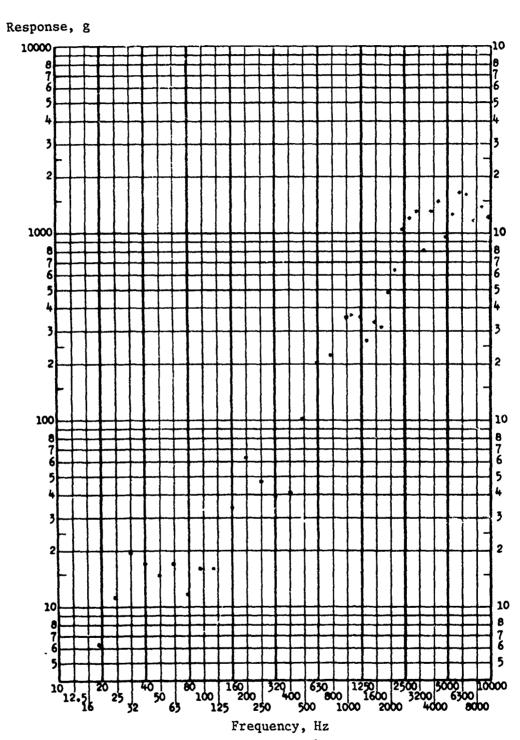
Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 47 Measurement No. 5 - Tangential axis longeron near station 117

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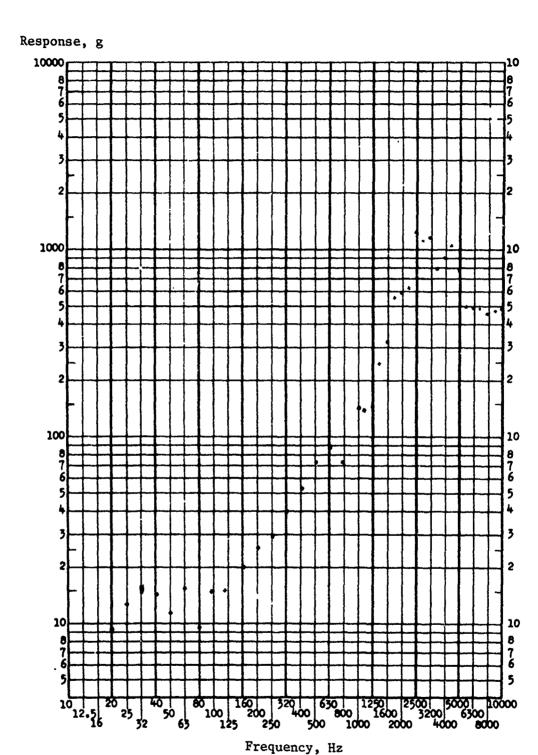
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Figure 47 (cont)



Bench Shock Test - Stage II/III Separation, Run 47 Measurement No. 6 - Radial axis longeron near station 117

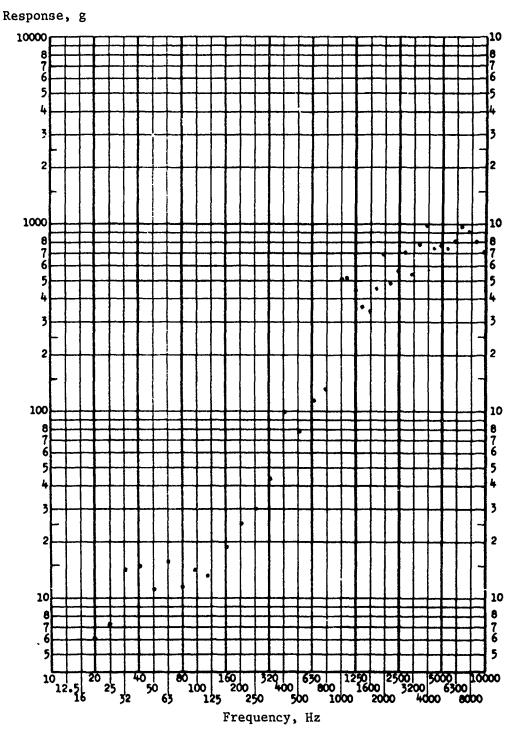
Figure 47 (cont)



Bench Shock Test - Stage II/III Separation, Run 47 Measurement No. 7 - Longitudinal axis longeron near station 77

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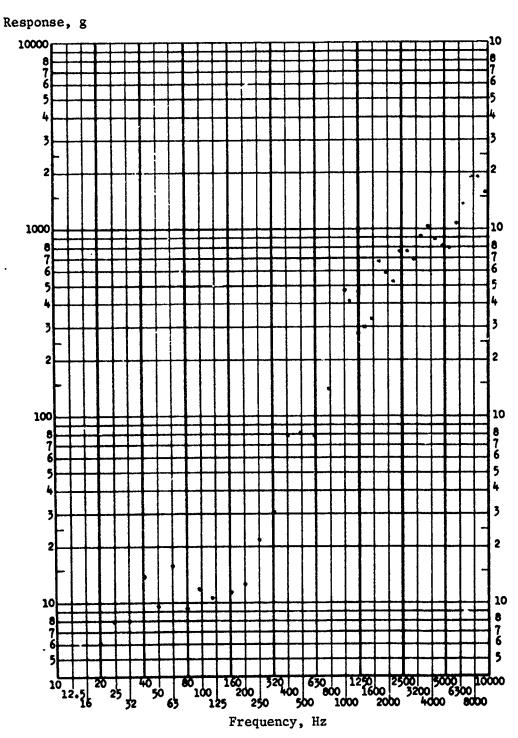
Figure 47 (cont)



Bench Shock Test - Stage II/III Separation, Run 47 Measurement No. 8 - Tangential axis longeron near station 77

Figure 47 (cont)

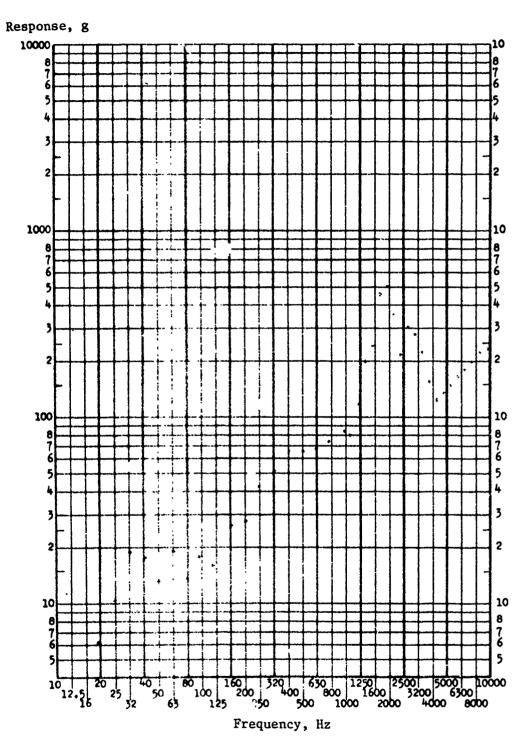
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Bench Shock Test - Stage II/III Separation, Run 47 Measurement No. 9 - Radial axis longeron near station 77

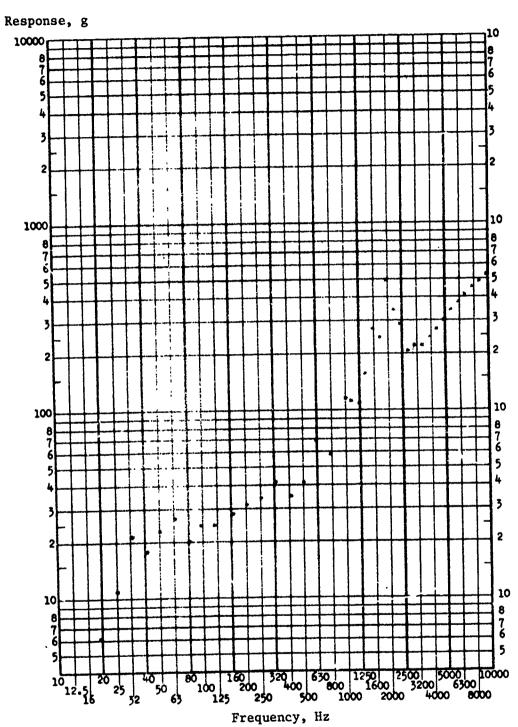
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Figure 47 (cont)



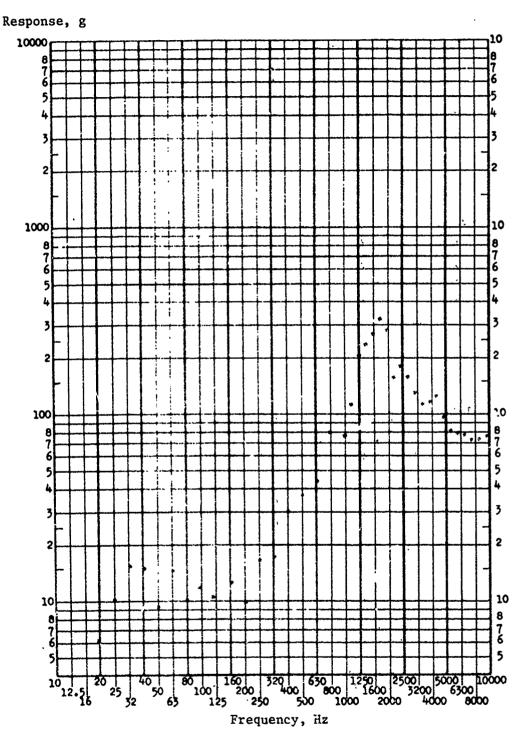
Bench Shock Test - Stage II/III Separation, Run 47 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 47 (cont)



Bench Shock Test - Stage II/III Separation, Run 47 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

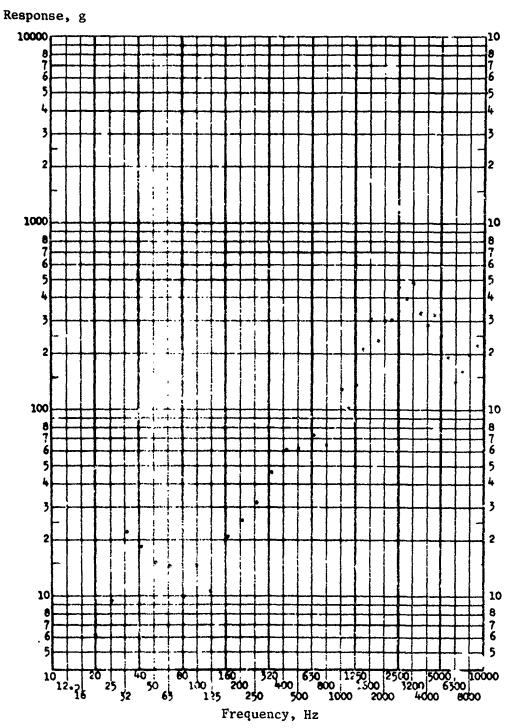
Figure 47 (cont)



Bench Shock Test - Stage II/III Separation, Run 47 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 47 (cont)

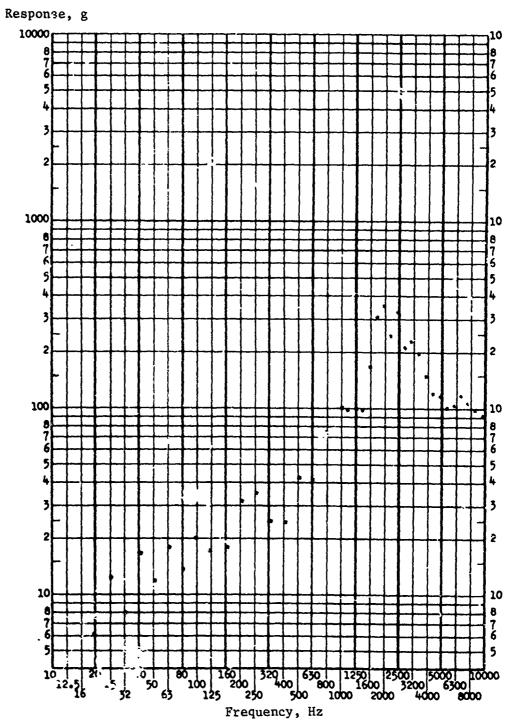
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Bench Shock Test - Stage II/III Separation, Run 47 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 47 (cont)

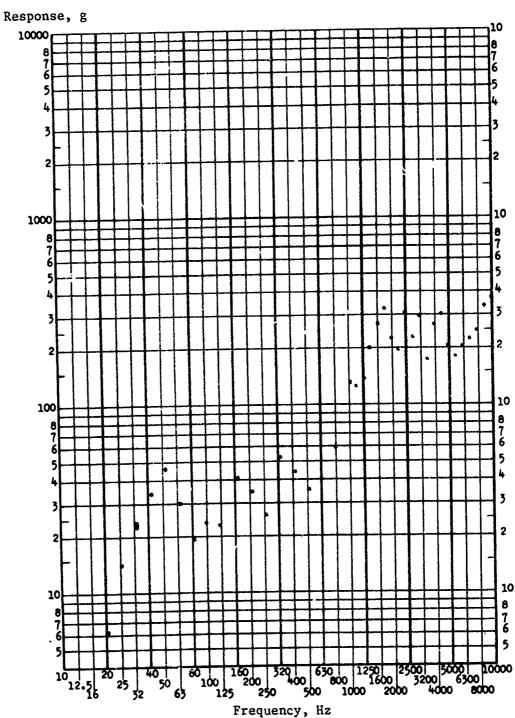
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Bench Shock Test - Stage II/III Separation, Run 47 Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 47 (cont)

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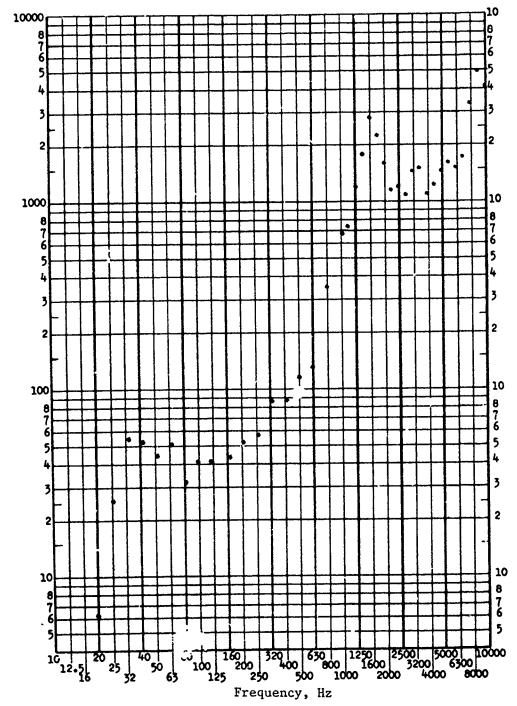
Bench Shock Test - Stage II/III Separation, Run 47 Measurement No. 15 - Lateral axis truss top near longeron attach point

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Figure 47 (concl)

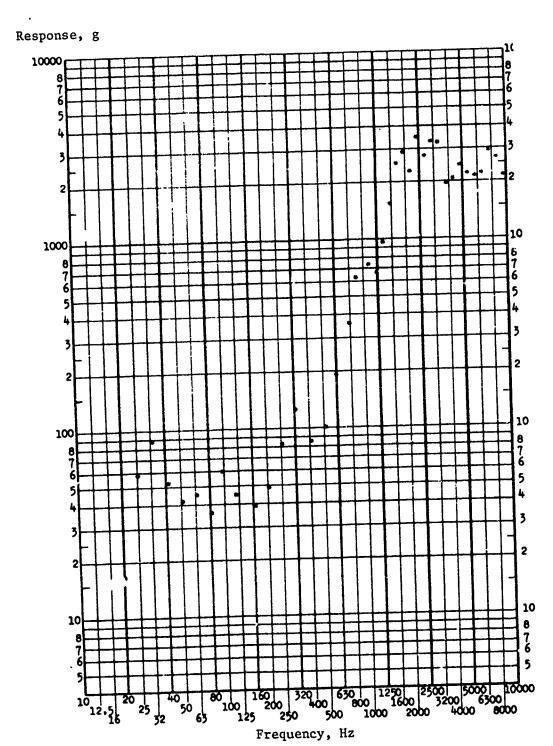
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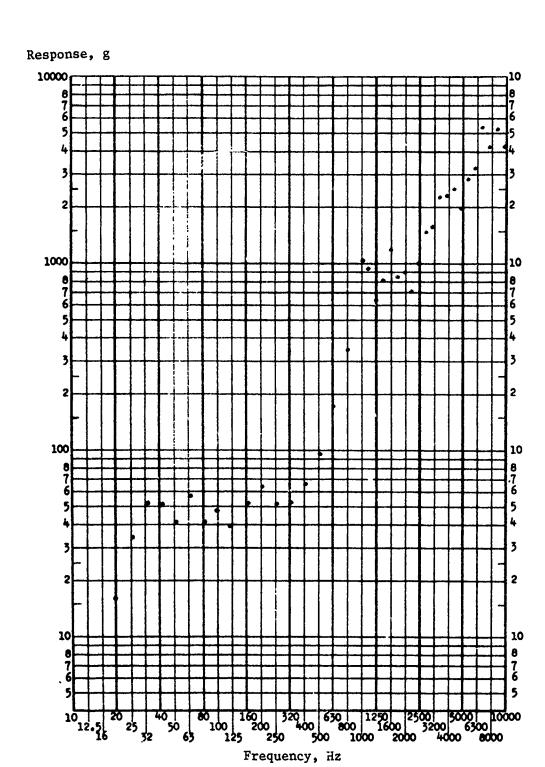


Bench Shock Test - Stage II/III Separation, Run 48 Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 48 Run 48 Shock Response Spectrum



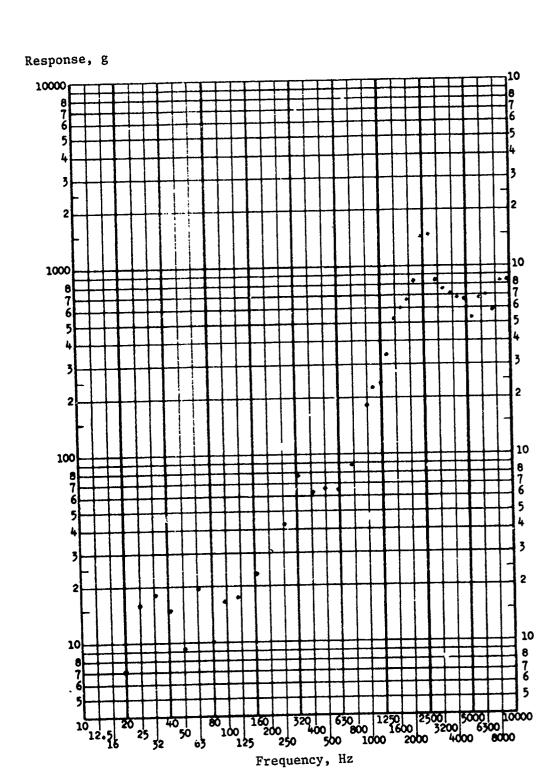
Bench Shock Test - Stage II/III Separation, Run 48 Measurement No. 2 - Tangential axis longeron near station 133



Bench Shock Test - Stage II/III Separation, Run 48 Measurement No. 3 - Radial axis longeron near station 133

ANTICES ANTICE

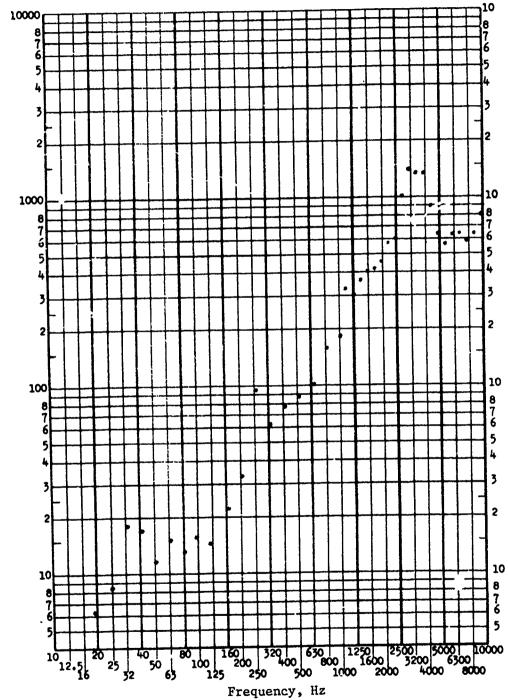
Figure 48 (cont)



Bench Shock Test - Stage II/III Separation, Run 48 Measurement No. 4 - Longitudinal axis longeron near station 117

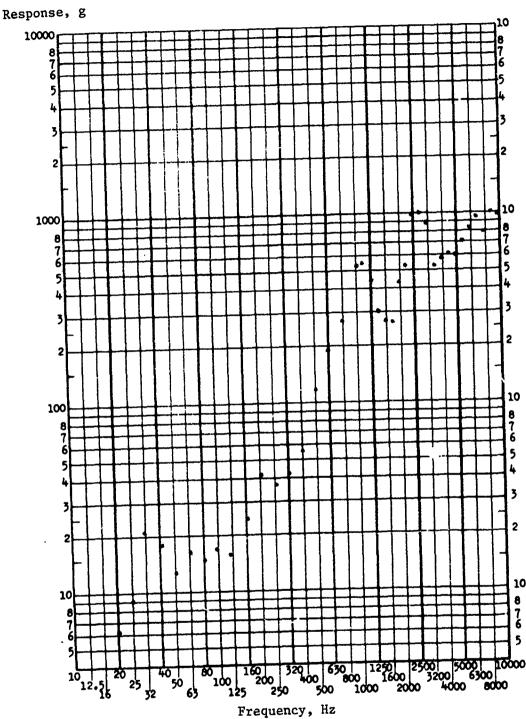
Figure 48 (cont)





Bench Shock Test - Stage II/III Separation, Run 48 Measurement No. 5 - Tangential axis longeron near station 117 Secretarian de la compara de l

Figure 48 (conc)

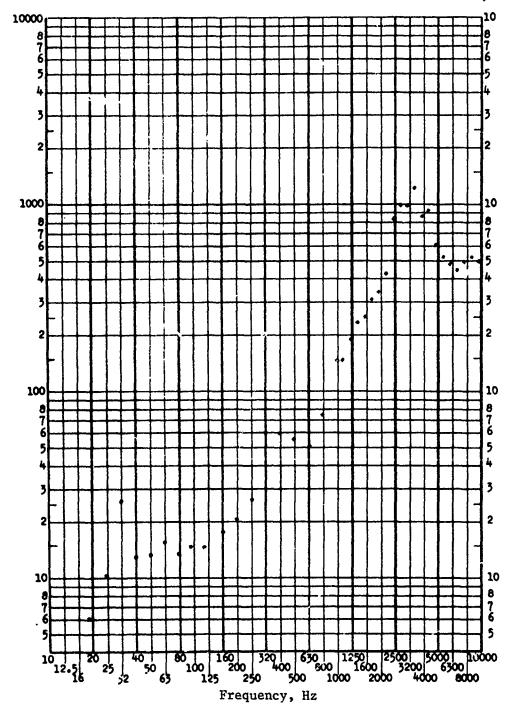


Bench Shock Test - Stage II/III Separation, Run 48 Measurement No. 6 - Radial axis longeron near station 117

Figure 48 (cont)

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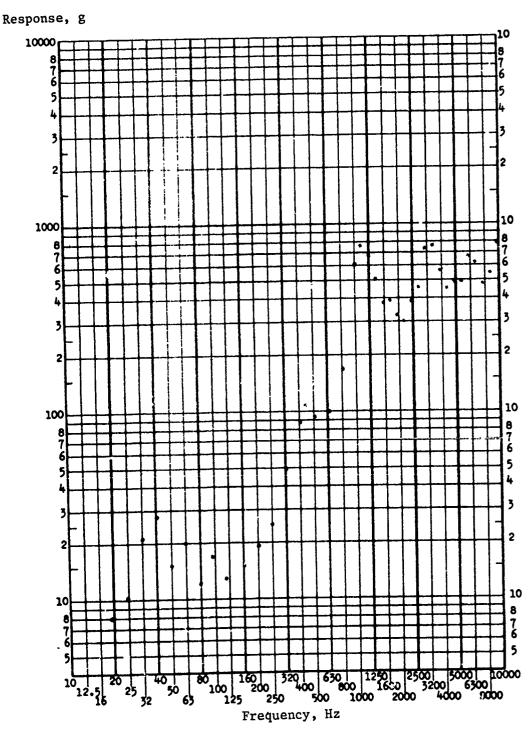




Bench Shock Test - Stage II/III Separation, Run 48 Measurement No. 7 - Longitudinal axis longeron near station 77

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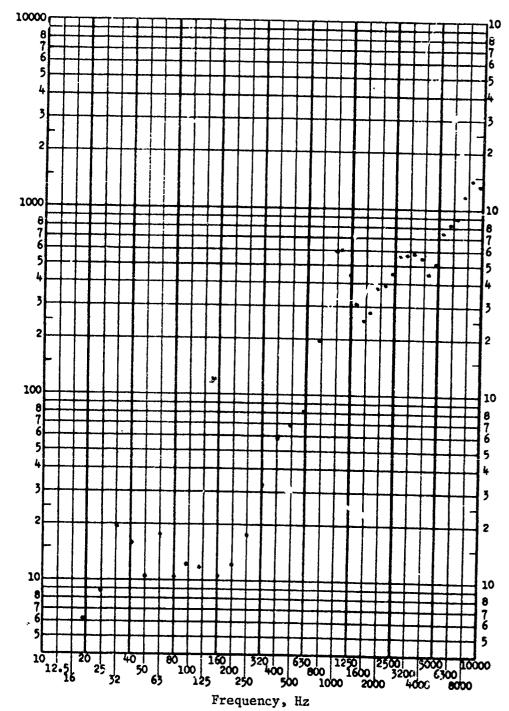
Figure 48 (cont)



Bench Shock Test - Stage II/III Separation, Run 48 Measurement No. 8 - Tangential axis longeron near station 77

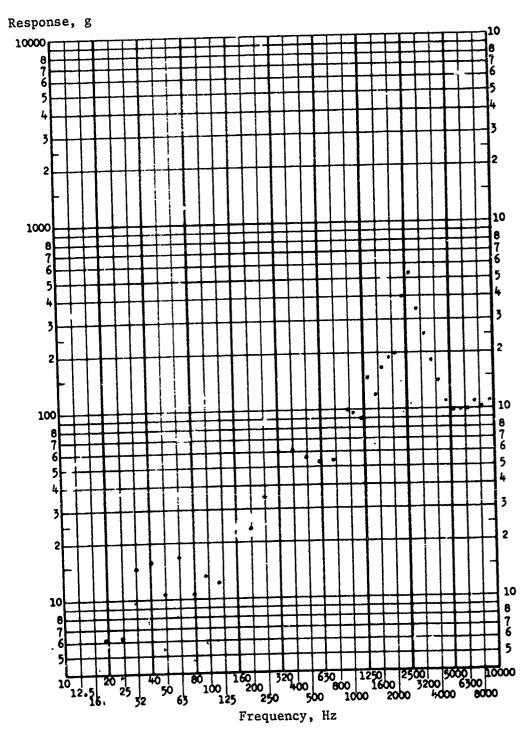
Figure 48 (cont)





Bench Shock Test - Stage II/III Separation, Run 48 Measurement No. 9 - Radial axis longeron near station 77

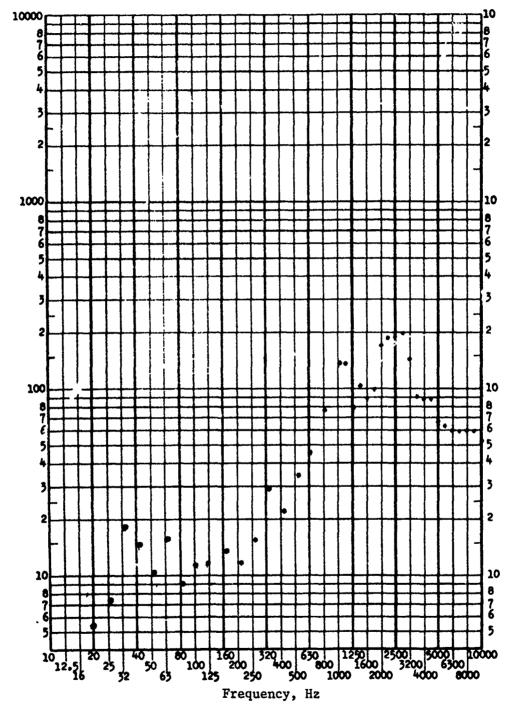
Figure 48 (cont)



Bench Shock Test - Stage II/III Separation, Run 48 Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 48 (cont)

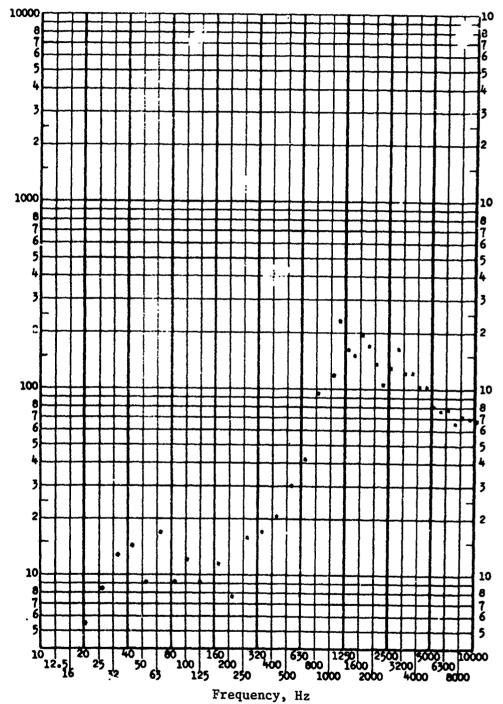




Bench Shock Test - Stage II/III Separation, Run 48 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 48 (cont)



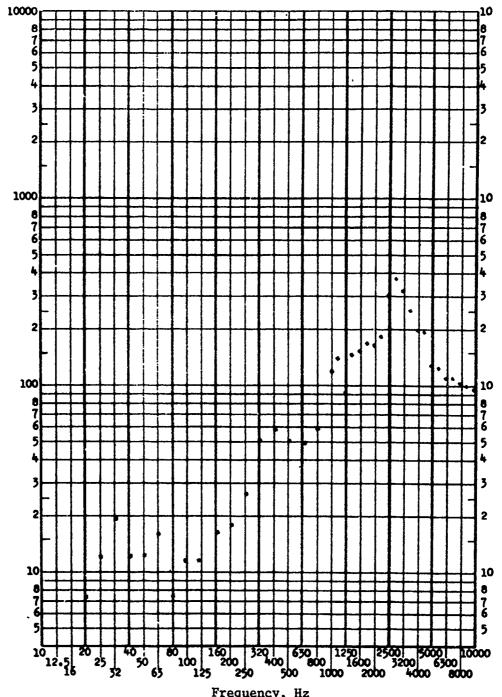


Bench Shock Test - Stage II/III Separation, Run 48 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 48 (cont)



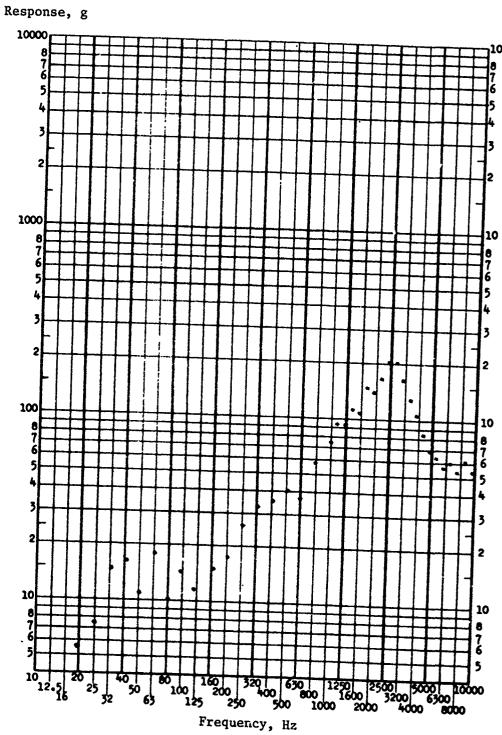
A The state of the



Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 48 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

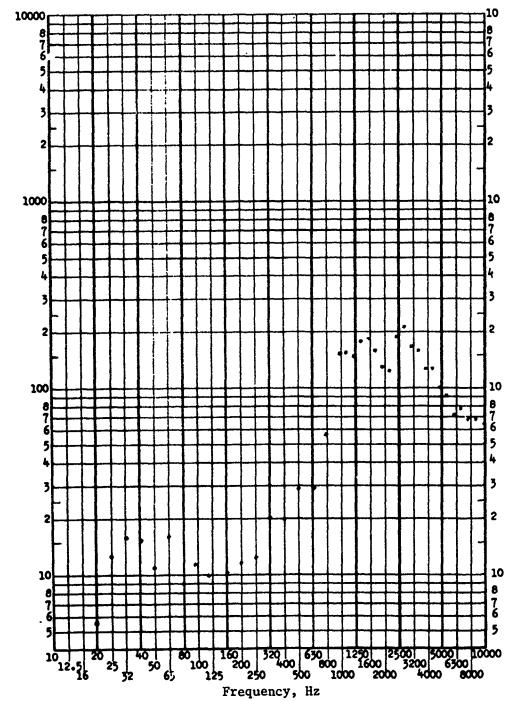
Figure 48 (cont)



Bench Shock Test - Stage II/III Separation, Run 48 Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 48 (cont)

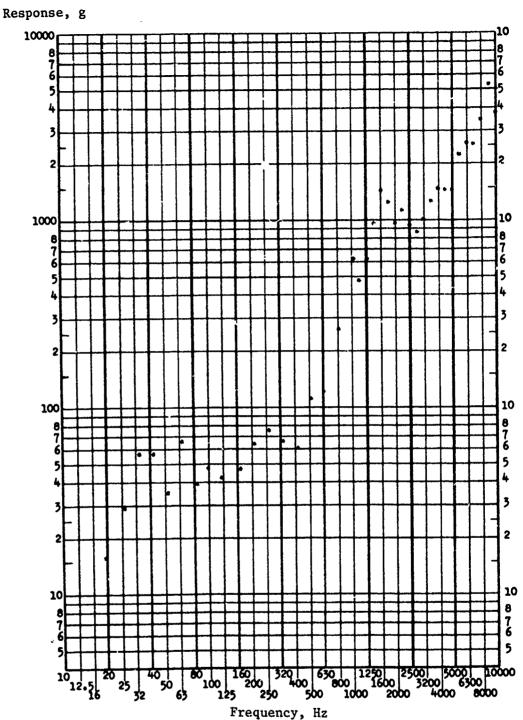




Bench Shock Test - Stage II/III Separation, Run 48 Measurement No. 15 - Lateral axis truss top near longeron attach point

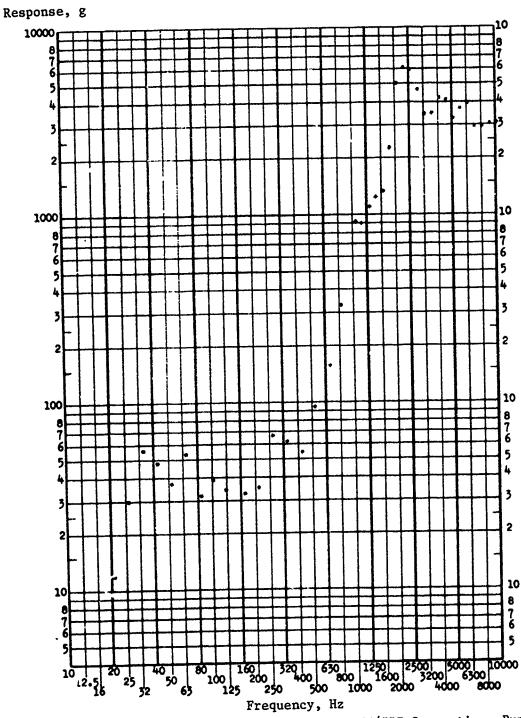
Figure 48 (concl)

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Bench Shock Test - Stage II/III Separation, Run 49\_ Measurement No. 1 - Longitudinal axis longeron near station 133

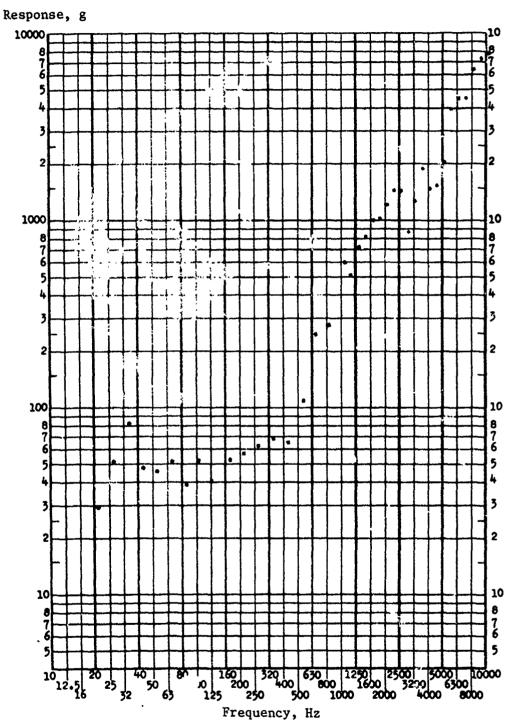
Figure 49 Run 49 Shock Response Spectrum



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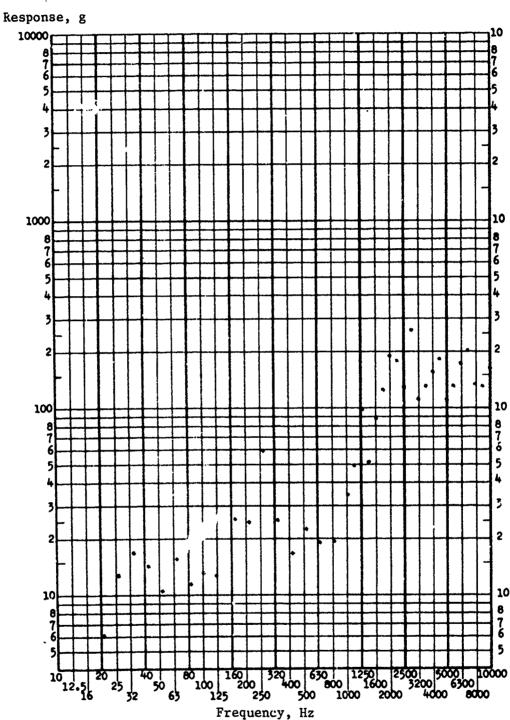
Bench Shock Test - Stage II/III Separation Run 49 \_\_ Measurement No. 2 - Tangential axis longeron near station 133

Figure 49 (cont)



Bench Shock Test - Stage II/III Separation, Run 49 \_\_ Measurement No. 3 - Radial axis longeron near station 133

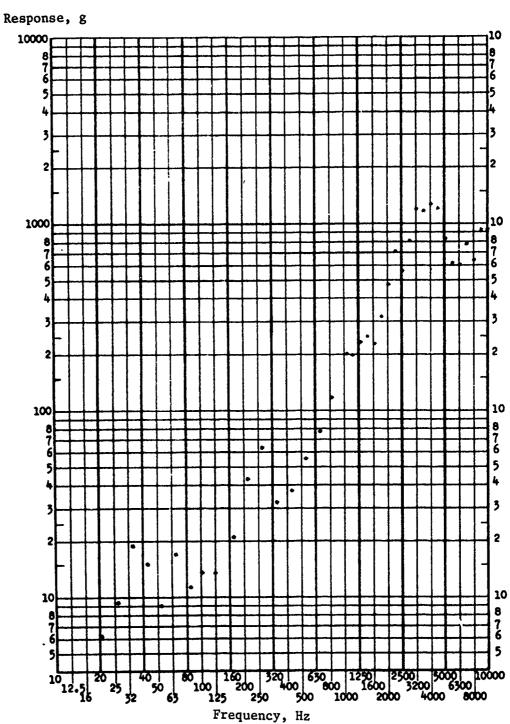
Figure 49 (cont)



Bench Shock Test - Stage II/III Separation, Run 49\_ Measurement No. 4 - Longitudinal axis longeron near station 117

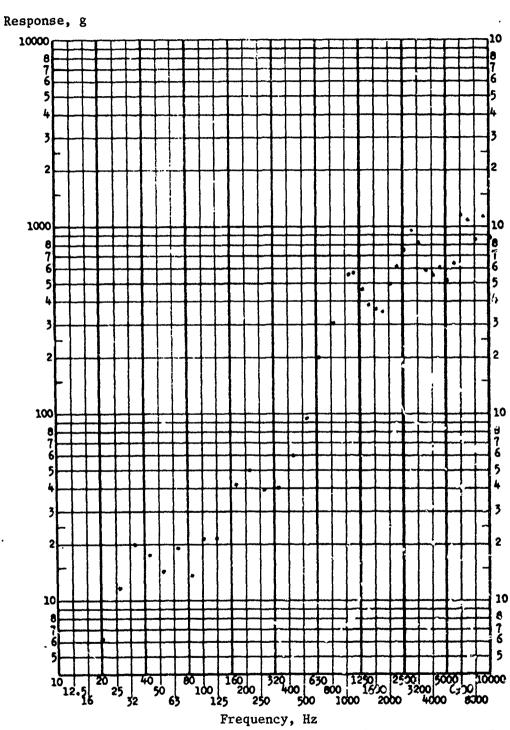
Figure 49 (cont)

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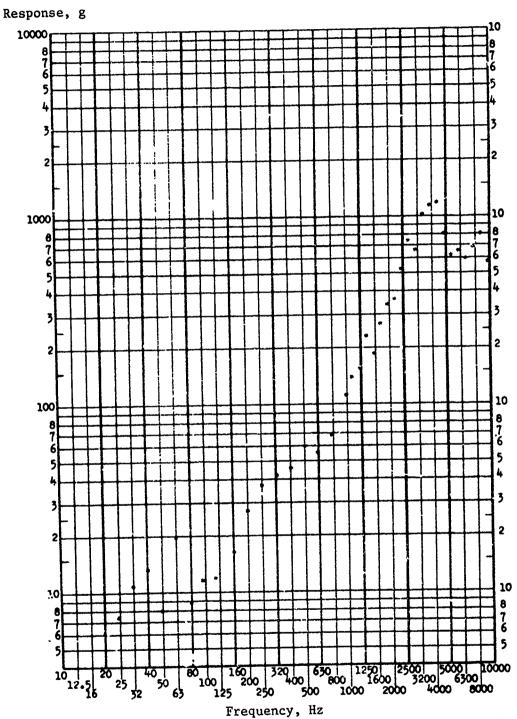
Bench Shock Test - Stage II/III Separation, Run 49 \_\_ Measurement No. 5 - Tanguatial axis longeron near station 117

Figure 49 (cont)



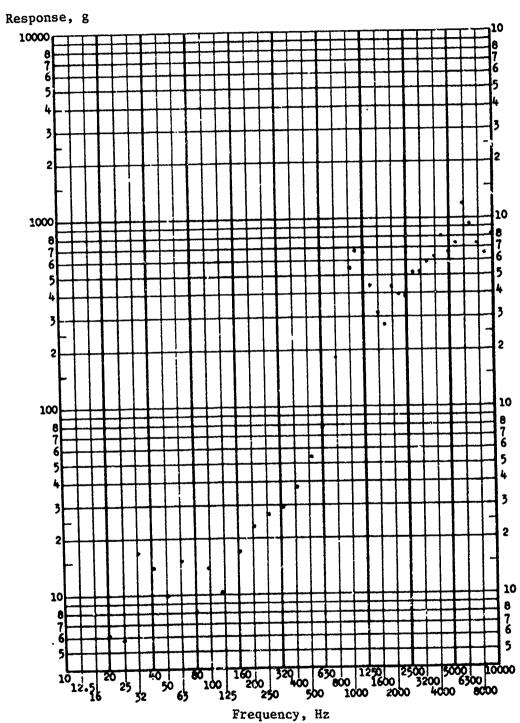
Bench Shock Test - Stage II/II) Separation, Run 49 \_\_ Measurement No. 6 - Radial axis longeron near station 117

Figure 49 (cont)



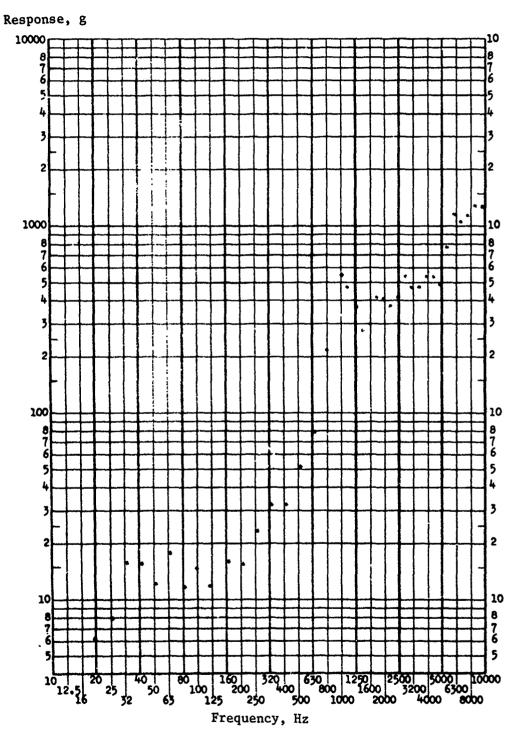
Bench Shock Test - Stage II/III Separation, Run 49 \_\_ Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 49 (cont)



Bench Shock Test - Stage II/III Separation, Run 49 \_\_ Measurement No. 8 - Tangential axis longeron near station 77

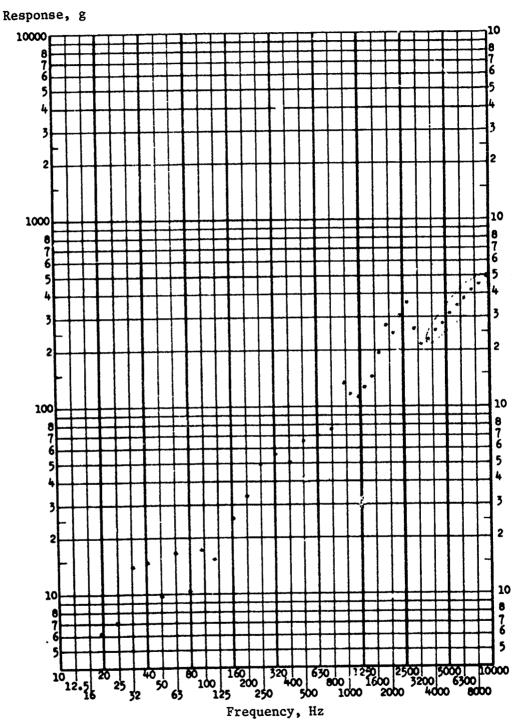
Figure 49 (cont)



Bench Shock Test - Stage II/III Separation, Run 49 \_ Measurement No. 9 - Radial axis longeron near static 77

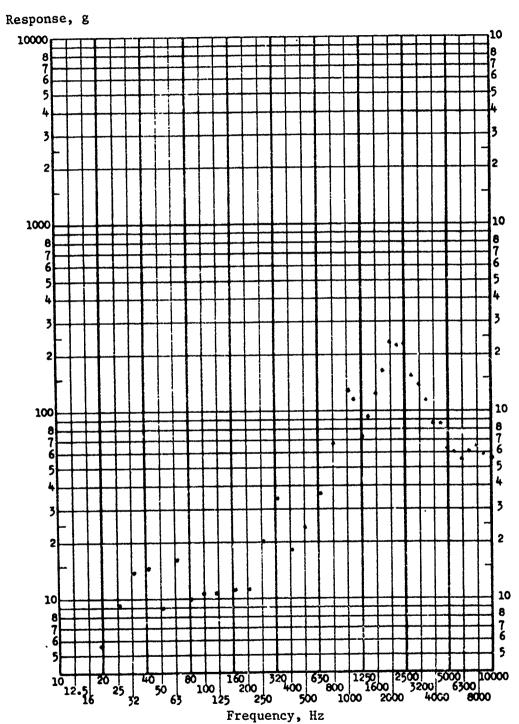
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Figure 49 (cont)



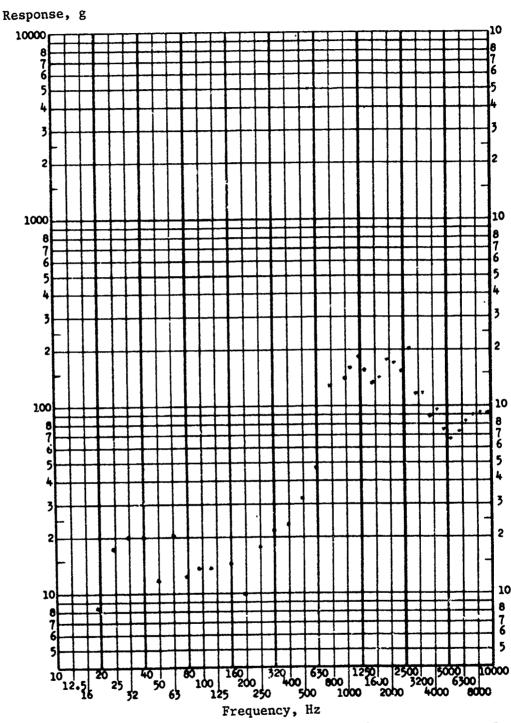
Bench Shock Test - Stage II/III Separation, Run 49 \_ Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 49 (cont)



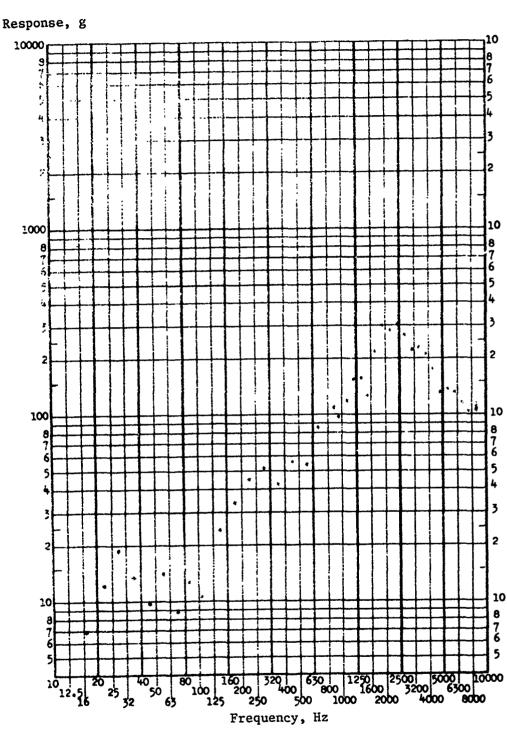
Bench Shock Test - Stage II/III Separation, Run 49 \_\_ Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 49 (cont)



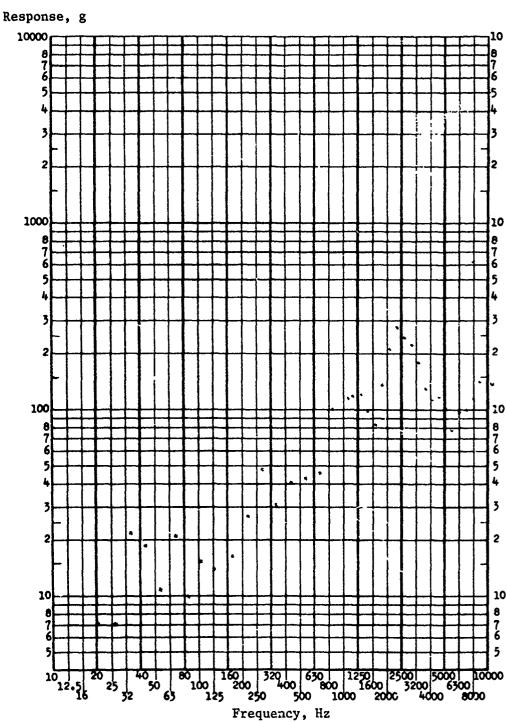
Bench Shock Test - Stage II/III Separation, Run 49 \_\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 49 (cont)



Bench Shock Test - Stage II/III Separation, Run 49 \_ Measurement No. 13 - Longitudinal axis truss top near longerom attach point

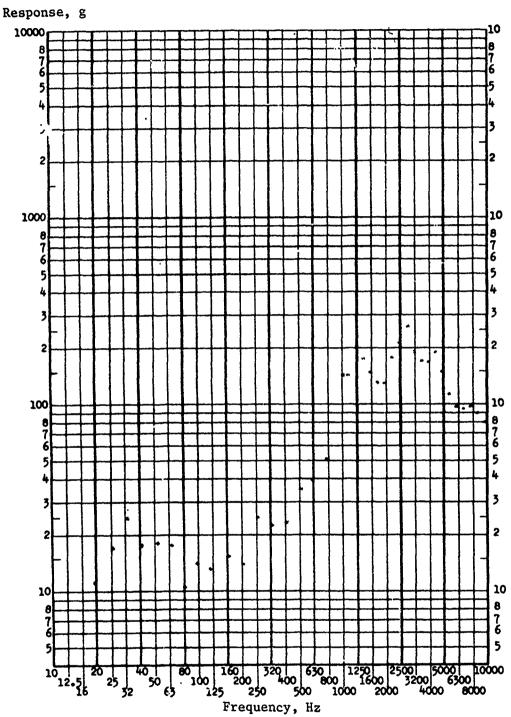
Figure 49 (cont)



Bench Shock Test - Stage II/III Separation, Run 49 Measurement No. 14 - Lateral axis truss top near longeron attach point

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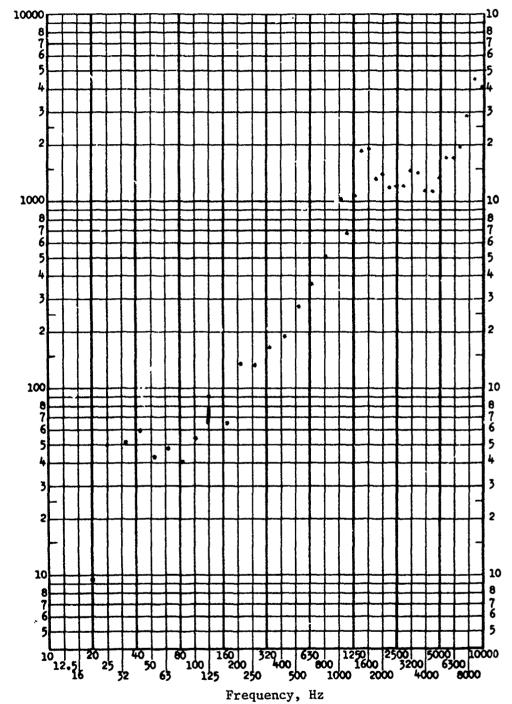
Figure 49 (cont)



Bench Shock Test - Stage II/III Separation, Run 49 \_ Measurement No. 15 - Lateral axis truss top near longeron attach point

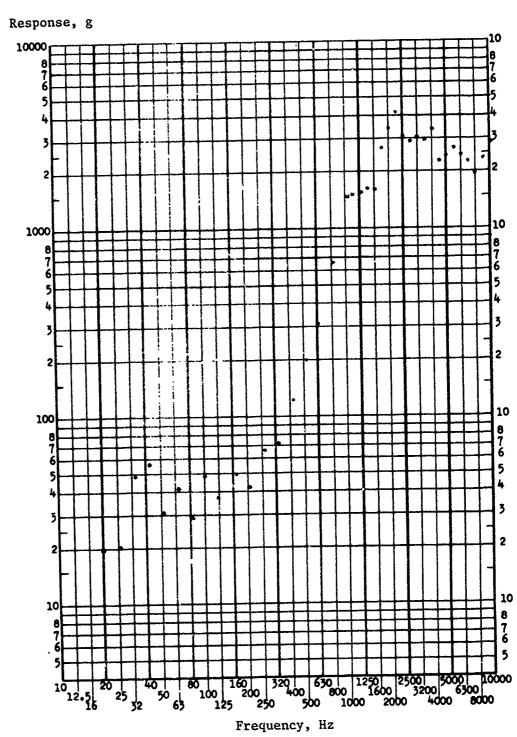
Figure 49 (concl)





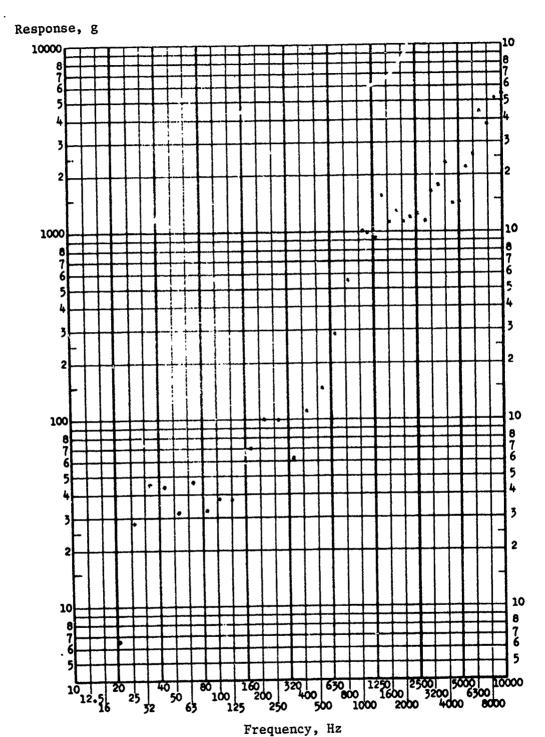
Bench Shock Test - Stage II/III Separation, Run 50 Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 50 Run 50 Shock Response Spectrum



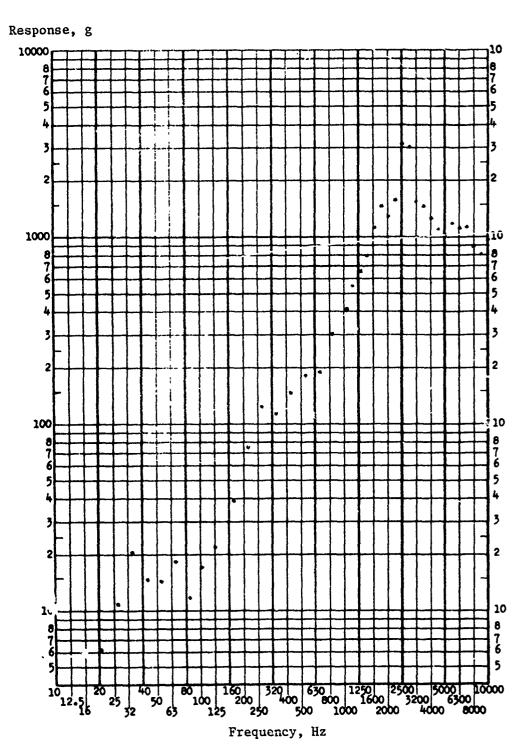
Bench Shock Test - Stage II/III Separation, Run 50 Measurement No. 2 - Tangential axis longeron near station 133

Figure 50 (cont)



Bench Shock Test - Stage II/III Separation, Run 50 Measurement No. 3 - Radial axis longeron near station 133

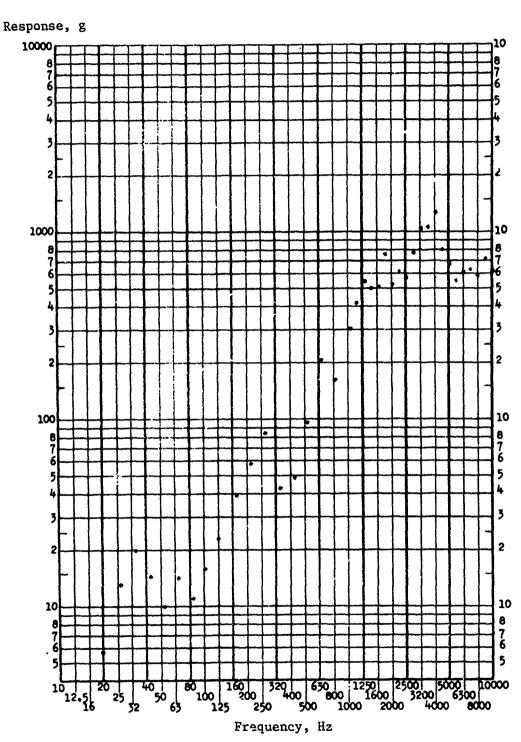
Figure 50 (cont)



Bench Shock Test - Stage II/III Separation, Run 50 Measurement No. 4 - Longitudinal axis longeron near station 117

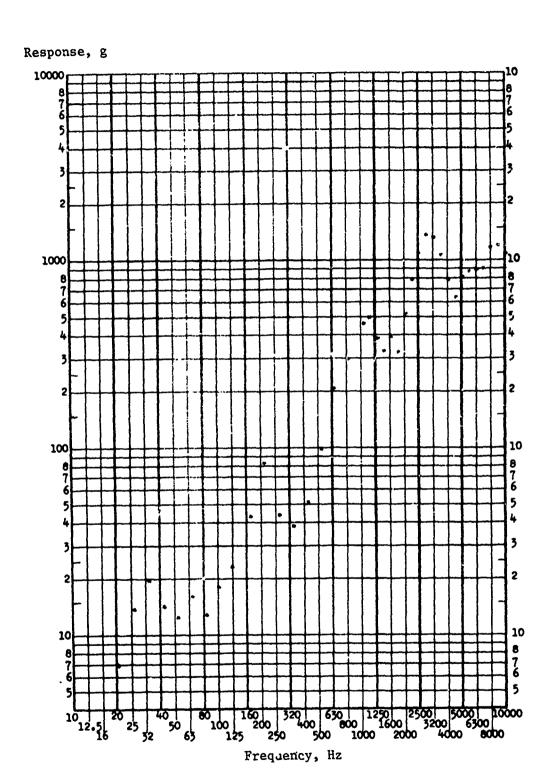
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Figure 50 (cont)



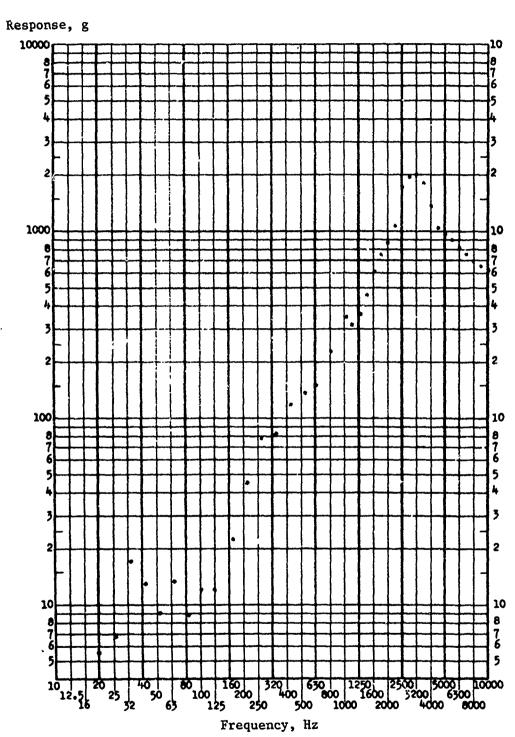
Bench Shock Test - Stage II/III Separation, Run 50 Mcasurement No. 5 - Tangential axis longeron near station 117

Figure 50 (cont)



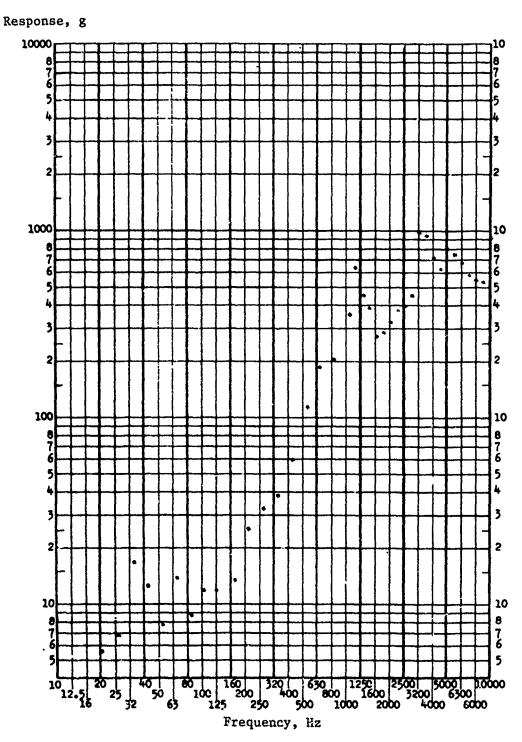
Bench Shock Test - Stage II/III Separation, Run 50 Measurement No. 6 - Radial axis longeron near station 117

Figure 50 (cont)



Bench Shock Test - Stage II/III Separation, Run 50 Measurement No. 7 - Longitudinal axis longeron near station 77

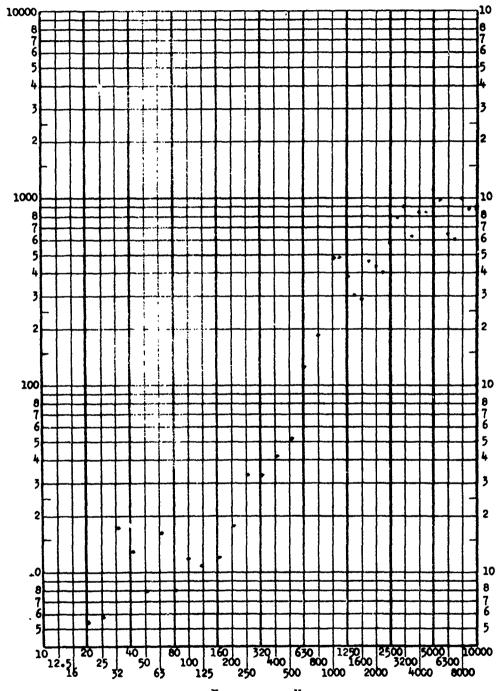
Figure 50 (cont)



Bench Shock Test - Stage II/III Separation, Run 50 Measurement No. 8 - Tangential axis longeron near station 77

Figure 50 (cont)

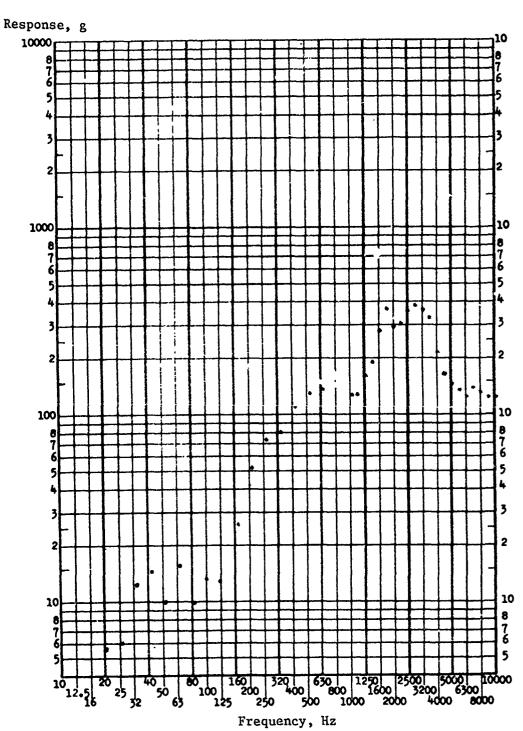




Frequency, Hz

Bench Shock Test - Stage II/III Separation, Run 50 Measurement No. 9 - Radial axis longeron near station 77

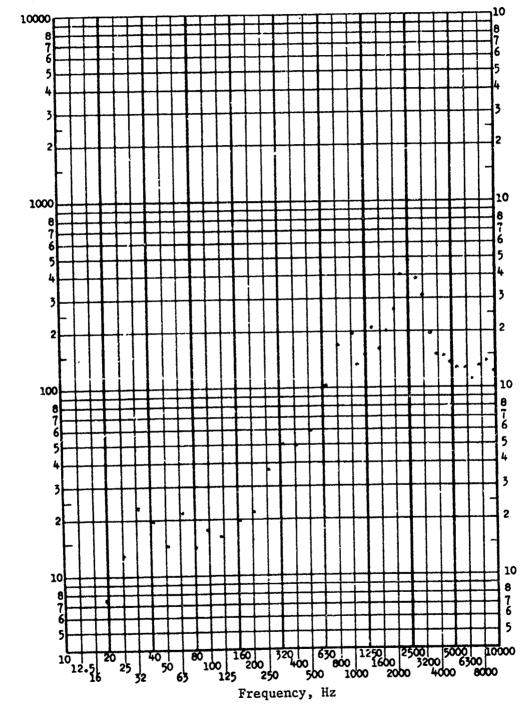
Figure 50 (cont)



Bench Shock Test - Stage II/III Separation, Run 50 Measurement No. 10 - Longitudinal exis truss bottom near station 114 attach point

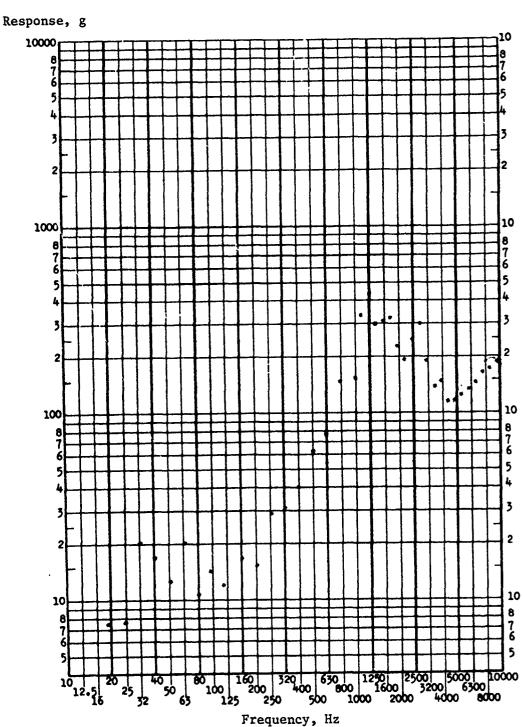
Figure 50 (cont)





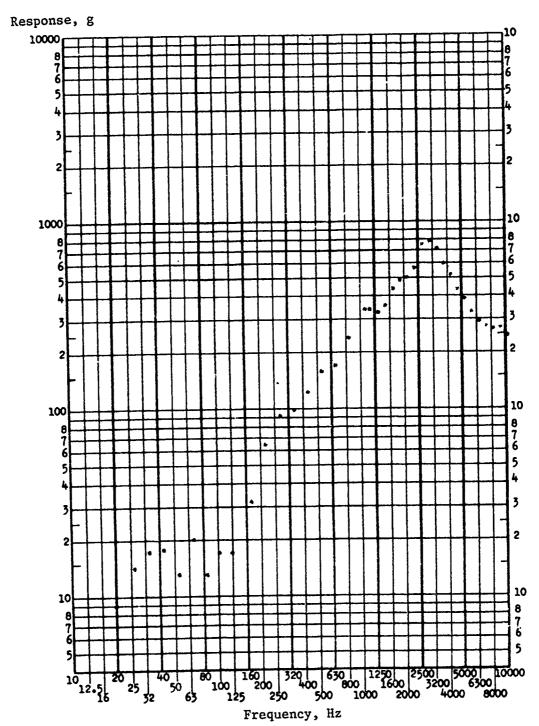
Bench Shock Test - Stage II/III Separation, Run 50 Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 50 (cont)



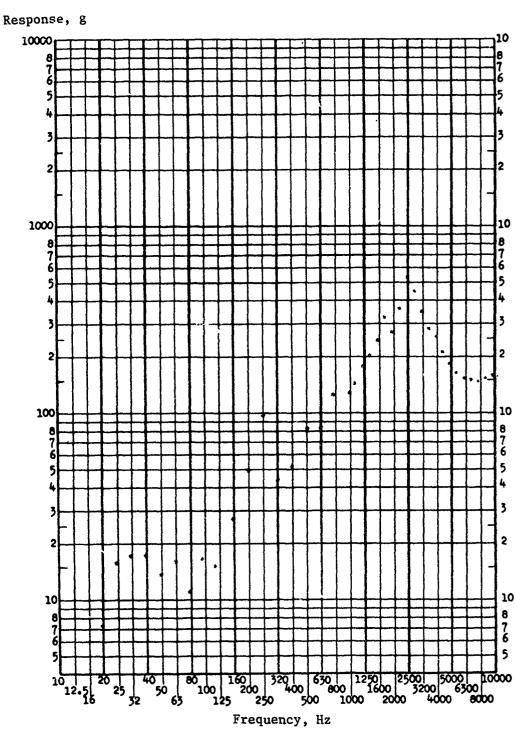
Bench Shock Test - Stage II/III Separation, Run 50 Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 50 (cont)



Bench Shock Test - Stage II/III Separation, Run 50 Measurement No. 13 - Longitudinal axis truss top near longeron attach point

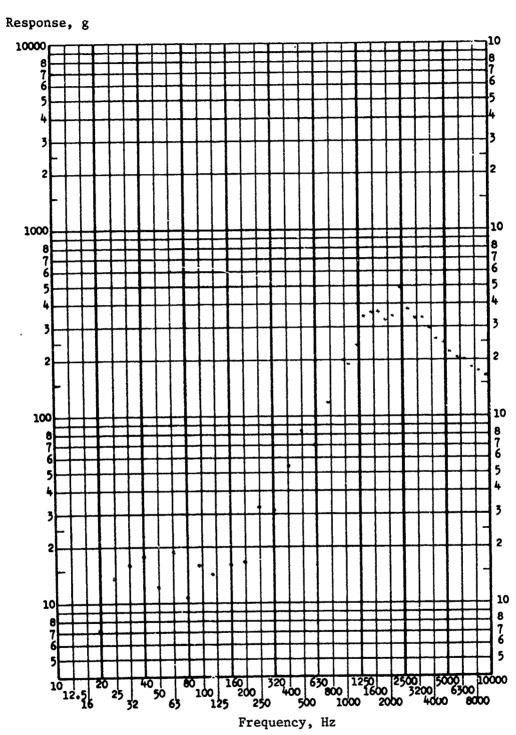
Figure 50 (cont)



Bench Shock Test - Stage II/III Separation, Run 50 Measurement No. 14 - Lateral axis truss top near longeron attach point

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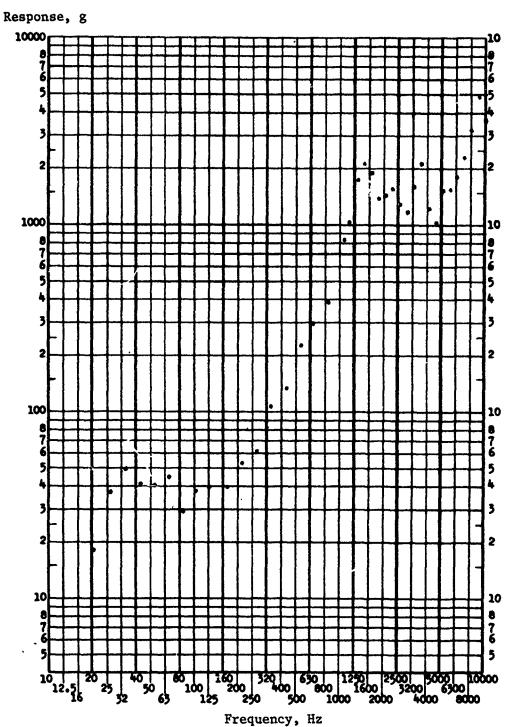
Figure 50 (cont)



Bench Shock Test - Stage II/III Separation, Run 50 Measurement No. 15 - Lateral axis truss top near longeron attach point

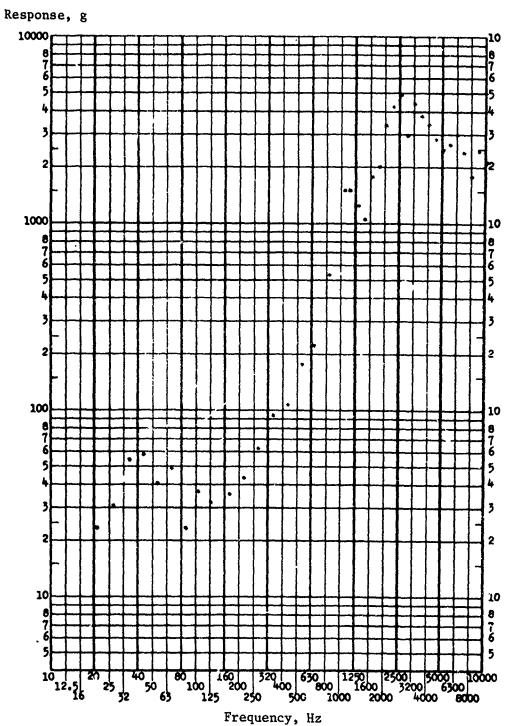
Figure 50 (concl)

Plank



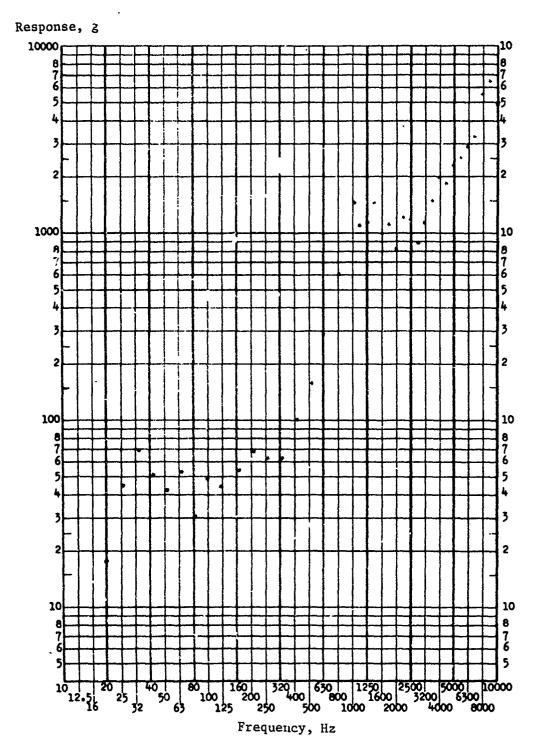
Bench Shock Test - Stage II/III Separation, Run 51 Measurement No. 1 - Longitudinal axis longeron near station 133

Figure 51 Run 51 Shock Response Spectrum



Bench Shock Test - Stage II/III Separation, Run 51 Measurement No. 2 - Tangential axis longeron near station 133

Figure 51 (cont)



Bench Shock Test - Stage II/III Separation, Run 51 Measurement No. 3 - Radial axis longeron near station 133

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Figure 51 (cont)

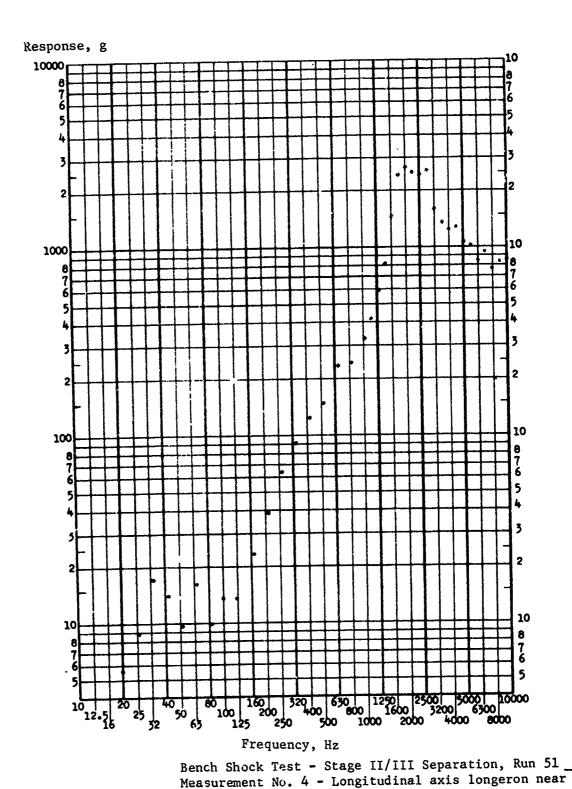
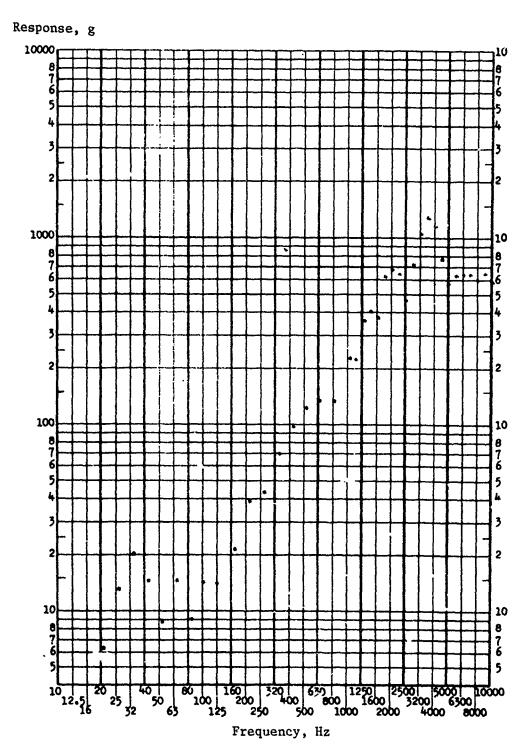


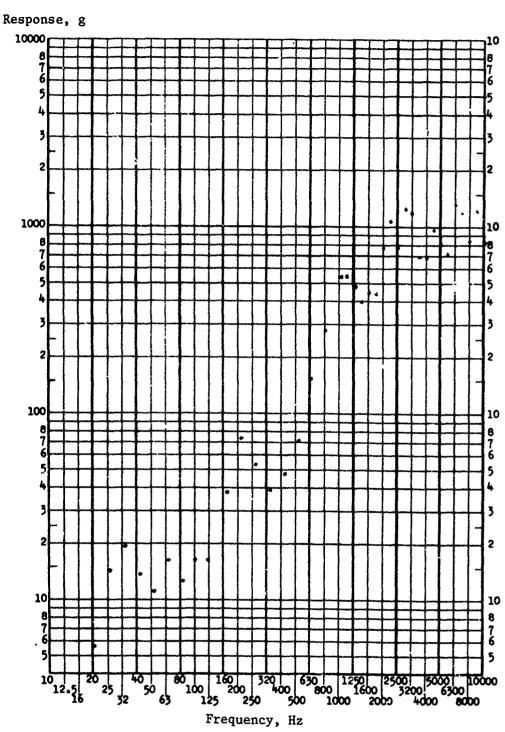
Figure 51 (cont)

station 117



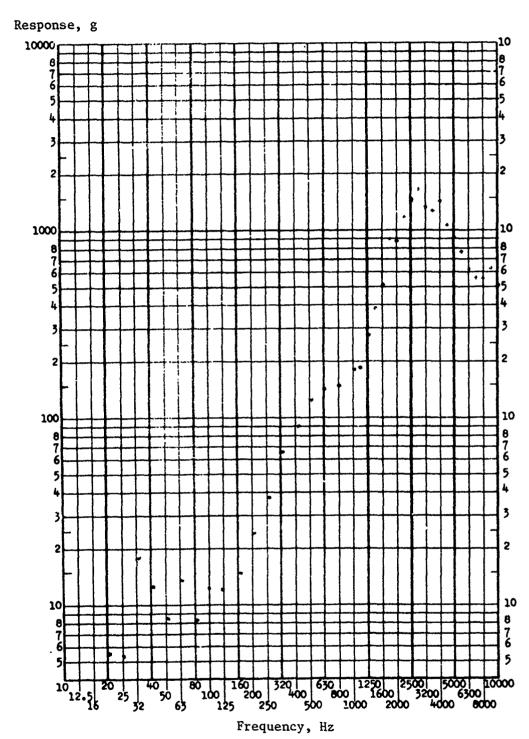
Bench Shock Test - Stage II/III Separation, Run 51 \_ Measurement No. 5 - Tangential axis longeron near station 117

Figure 51 (cont)



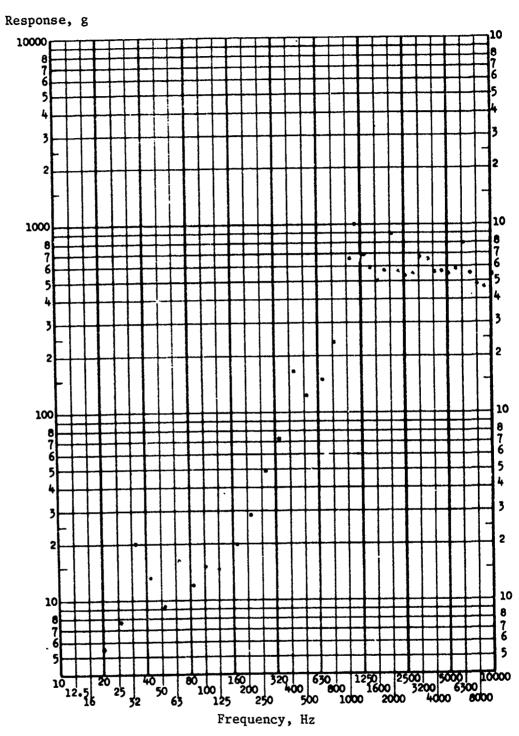
Bench Shock Test - Stage II/III Separation, Run 51 \_ Measurement No. 6 - Radial axis longeron near station 117

Figure 51 (cont)



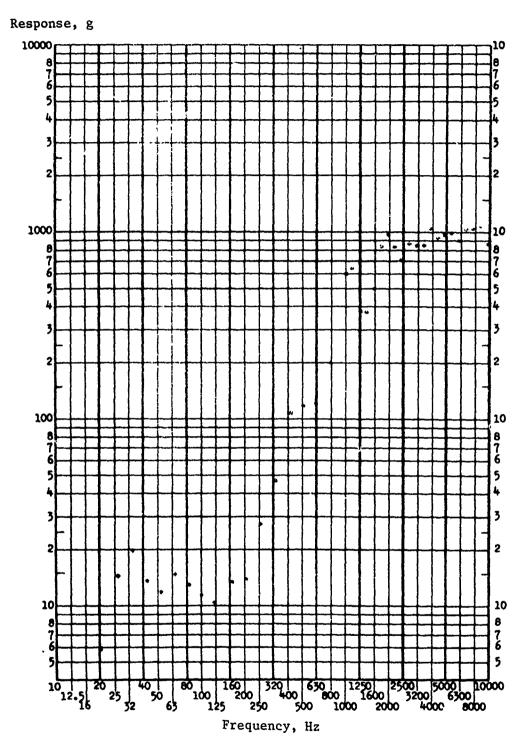
Bench Shock Test - Stage II/III Separation, Run 51 \_\_\_ Measurement No. 7 - Longitudinal axis longeron near station 77

Figure 51 (cont)



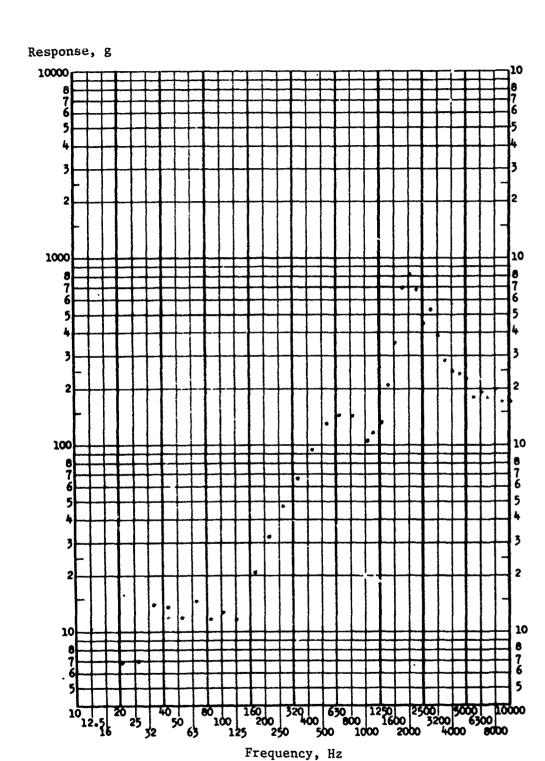
Bench Shock Test - Stage II/III Separation, Run 51 \_\_\_ Measurement No. 8 - Tangential axis longeron near station 77

Figure 51 (cont)



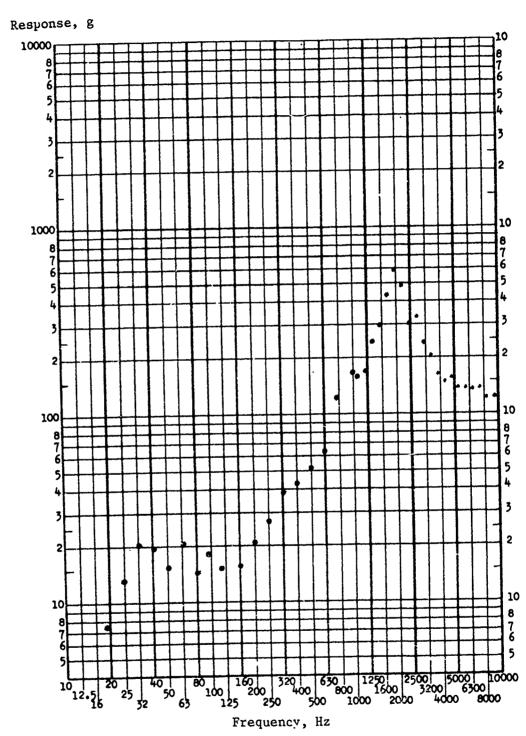
Bench Shock Test - Stage II/III Separation, Run 51 \_\_ Measurement No. 9 - Radial axis longeron near station 77

Figure 51 (cont)



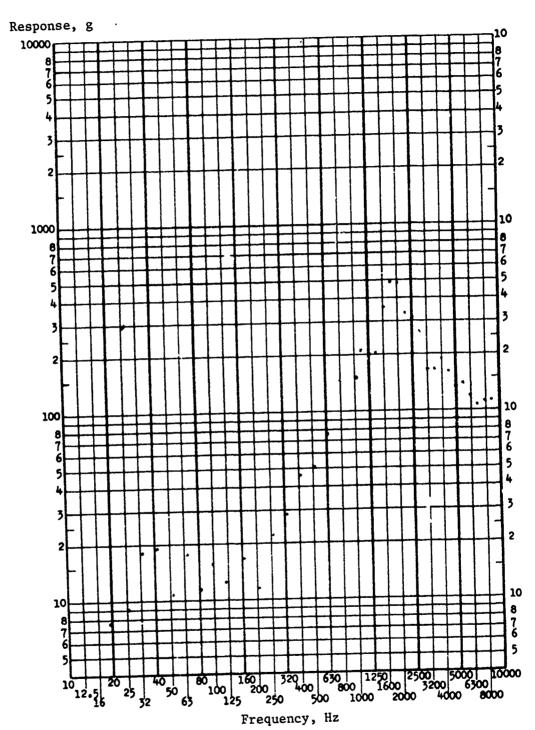
Bench Shock Test - Stage II/III Separation, Run 51 \_\_ Measurement No. 10 - Longitudinal axis truss bottom near station 114 attach point

Figure 51 (cont



Bench Shock Test - Stage II/III Separation, Run 51 \_ Measurement No. 11 - Lateral axis truss bottom near station 114 attach point

Figure 51 (cont)

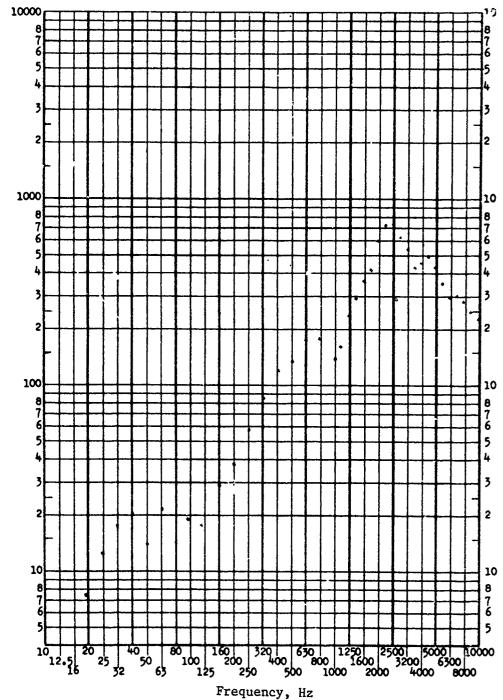


Bench Shock Test - Stage II/III Separation, Run 51 \_\_ Measurement No. 12 - Vertical axis truss bottom near station 114 attach point

Figure 51 (cont)

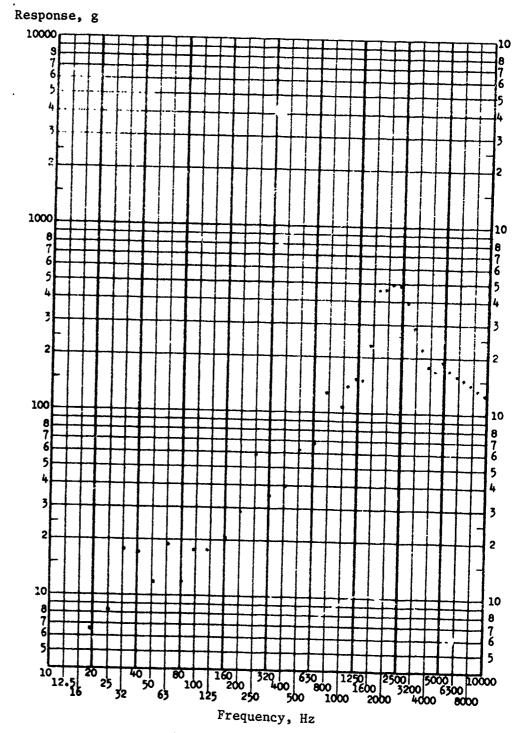


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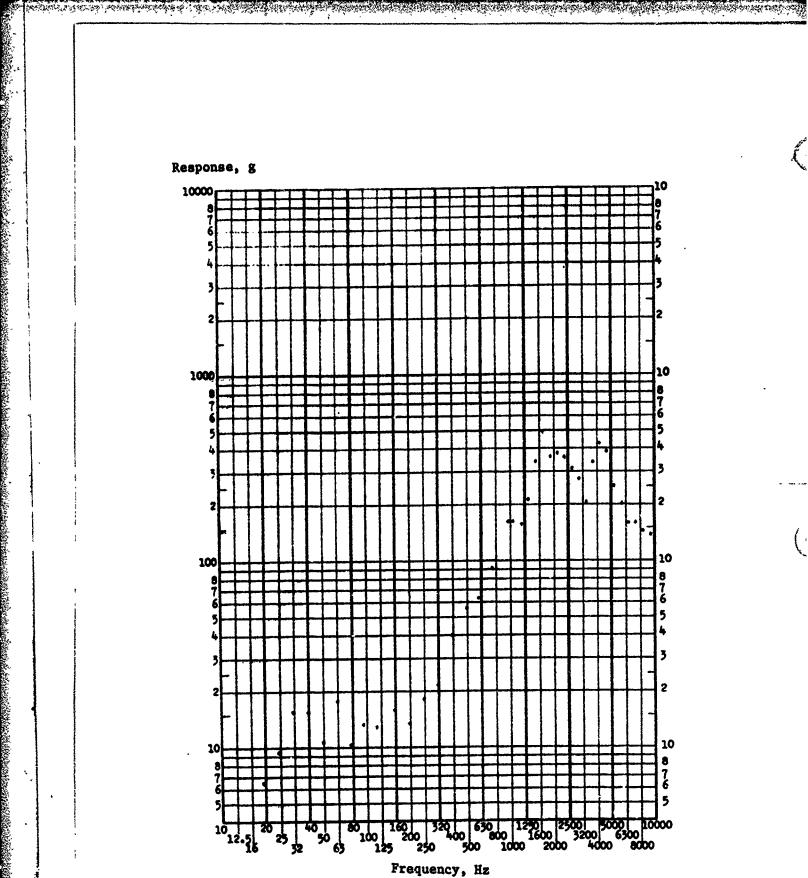
Bench Shock Test - Stage II/III Separation, Run 51 \_ Measurement No. 13 - Longitudinal axis truss top near longeron attach point

Figure 51 (cont)



Bench Shock Test - Stage II/III Separation, Run 51 \_ Measurement No. 14 - Lateral axis truss top near longeron attach point

Figure 51 (cont)



Bench Shock Test - Stage II/III Separation, Run 51\_ Measurement No. 15 - Lateral axis truss top near longeron attach point

Figure 51 (concl)